Figures



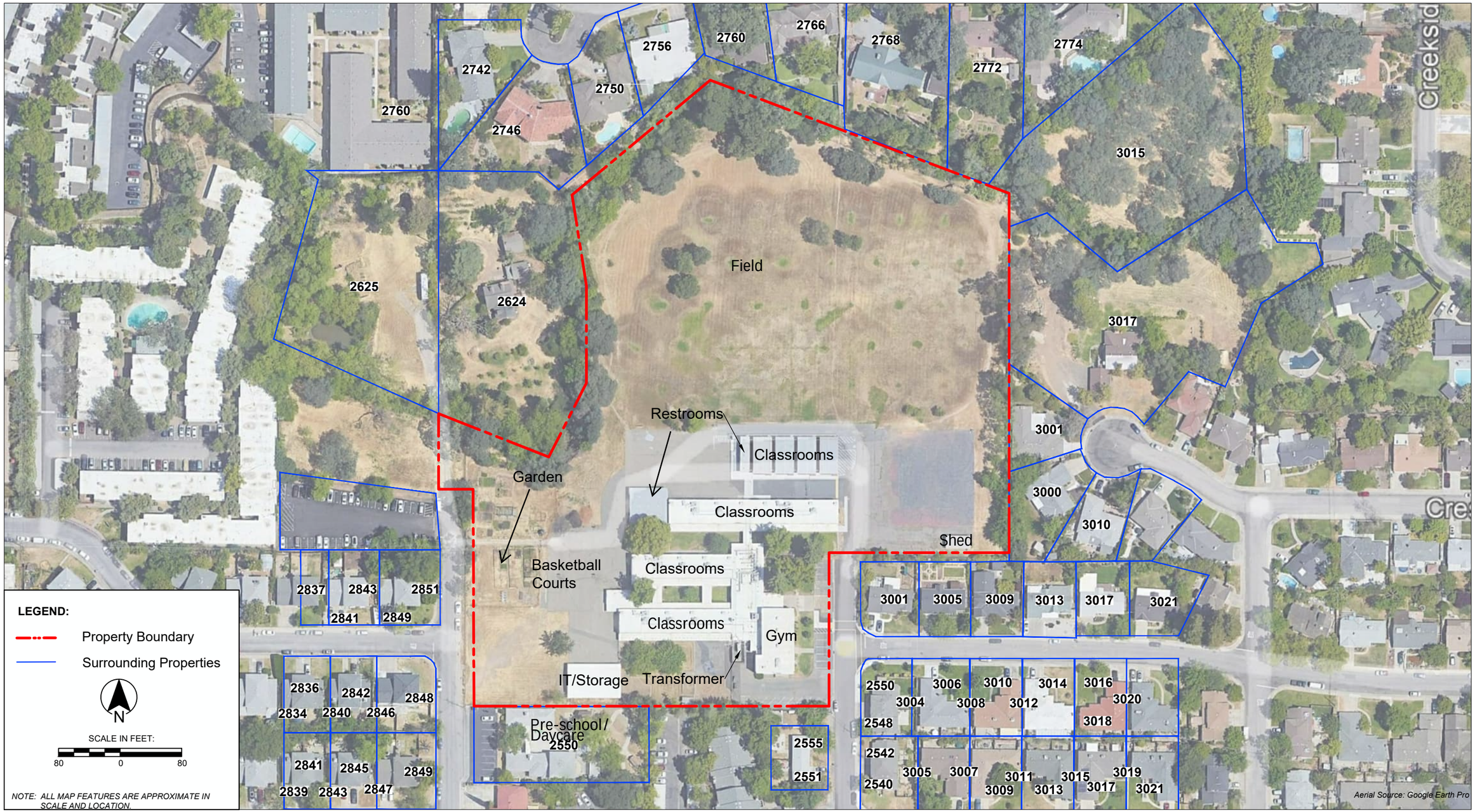
AECOM

SITE LOCATION MAP

CREEKSIDE ADULT CENTER
2641 KENT DR
SACRAMENTO CA 95821

FIGURE 1

C:\Users\Bivolarul\AECOM\GDS GIS Services - GIS CAD PROJECTS\DCS AMERICAS\REMWEST\FB154\Creekside Adult Center\WORKSPACE\20220816-Phase I ESA\Figure 1- Site Location Map.dwg Aug 17, 2022 - 4:31pm



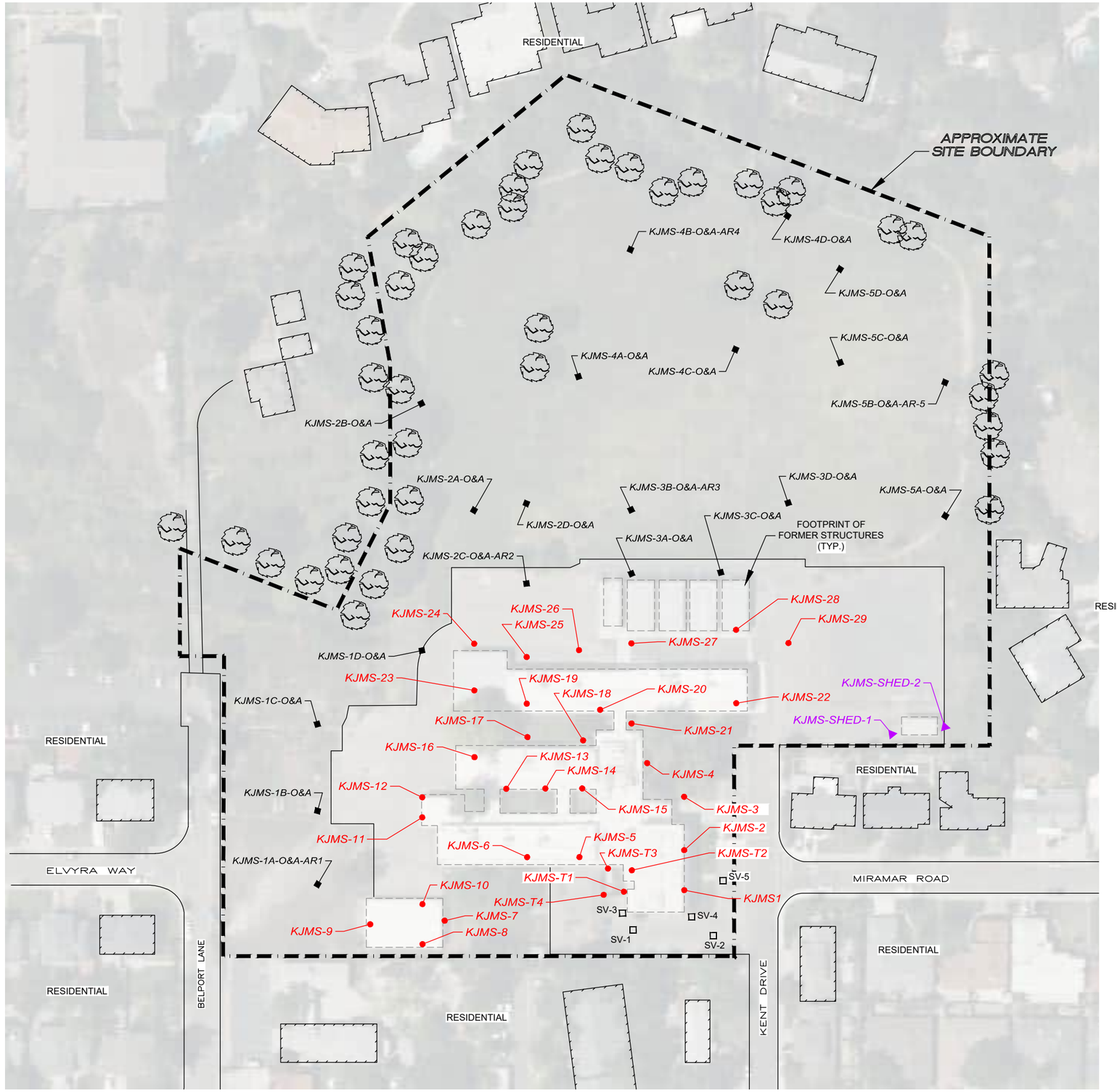
SITE LAYOUT MAP

CREEKSIDE ADULT CENTER
2641 KENT DR
SACRAMENTO CA 95821

FIGURE 2

AECOM

C:\Users\$vcloru_VECOM\GDS GIS Services – GIS CAD PROJECTS\DCS AMERICAS\REMWEST_FB154\Creekside Adult Center\WORKSPACE_20220816--Phase I ESA\Figure 2– Site Layout Map.dwg Aug 17, 2022 – 5:45pm



LEGEND

- SOIL SAMPLE
- SOIL SAMPLE
- SOIL SAMPLE
- SOIL SAMPLE

0 100 200

APPROX. SCALE, FT

NOTE: SCALE AND LOCATIONS ARE APPROXIAMTE

S:\Projects-BST\KITCHEL CM\Z054000356 KJ MIDDLE SCHOOL\SITEPLAN.dwg

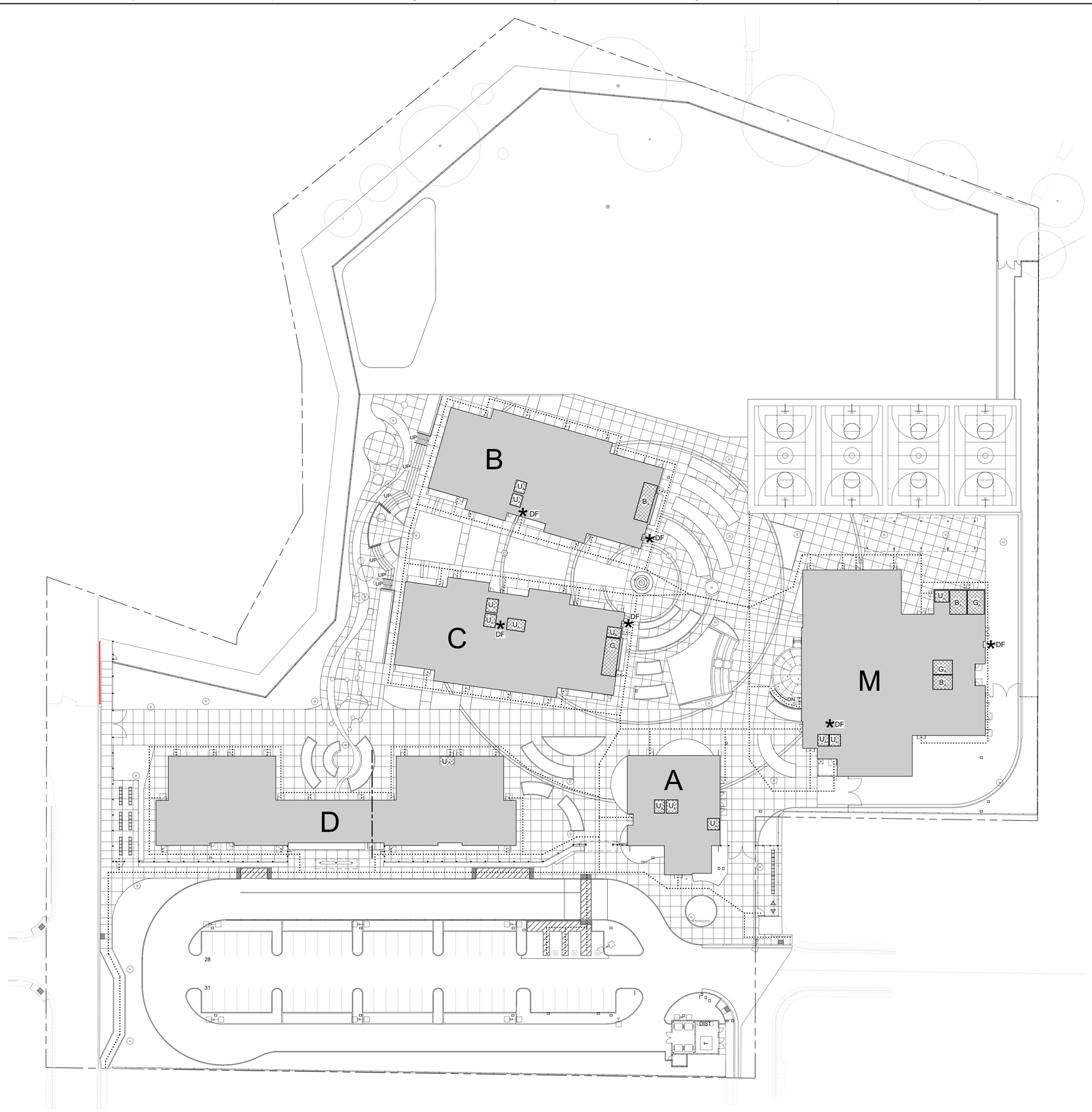
PROJECT NUMBER: Z054000356 | DATE: 4/11/23 | FIGURE 2
APPROVED BY: JH | DRAWN BY: BK

ATLAS
1117 Lone Palm Avenue, Ste. 201
Modesto, California 95351
Ph: (209) 579-2221 *** Fax: (209) 579-2225

SITE PLAN & SAMPLE LOCATIONS
KATHERINE JOHNSON MIDDLE SCHOO;L
2641 KENT DRIVE
SACRAMENTO, CA

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"



1 ACCESSIBILITY SITE PLAN
SCALE 1" = 30'-0"

LEGEND

ACCESSIBLE PATH OF TRAVEL

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR **PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS**. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PROPERTY LINE AND LIMITS OF ARCHITECTURAL SCOPE OF WORK

ACCESSIBLE DROP OFF ZONE

PARKING LIGHT STANDARD

DF ACCESSIBLE DRINKING FOUNTAIN

PH PANIC HARDWARE AT GATES

B_A BOYS RESTROOM ('A' = ACCESSIBLE)

G_A GIRLS RESTROOM ('A' = ACCESSIBLE)

U_A UNISEX RESTROOM ('A' = ACCESSIBLE)

PARKING SUMMARY

STAFF / VISITOR PARKING

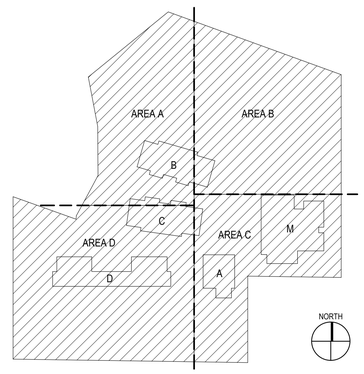
	NON ACCESSIBLE SPACES	STANDARD ACCESSIBLE REQUIRED	STANDARD ACCESSIBLE PROVIDED	VAN SPACES REQUIRED	VAN SPACES PROVIDED	TOTAL
TOTAL	56	3	3	1	1	59

REQUIRED CLEAN AIR / VANPOOL / CARPOOL PER 2019 CBC 5.106.5.2:	9
REQUIRED FUTURE ELECTRIC VEHICLE (EV) CHAGING SPACES (QUALIFY AS DESIGNATED PARKING FOR CLEAN AIR VEHICLES) PER 2019 CBC 5.106.5.3.3:	7

ACCESSIBLE PATH OF TRAVEL:

ACCESSBILE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OF VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL .

KEY PLAN



LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

PROJECT
KATHERINE JOHNSON MIDDLE SCHOOL
INCREMENT #2
2641 KENT DR.
SACRAMENTO, CA 95821

CLIENT
SAN JUAN UNIFIED SCHOOL DISTRICT
3738 WALNUT AVENUE
CARMICHAEL, CA 95608

ISSUED

MARK	DATE	DESCRIPTION

MANAGEMENT

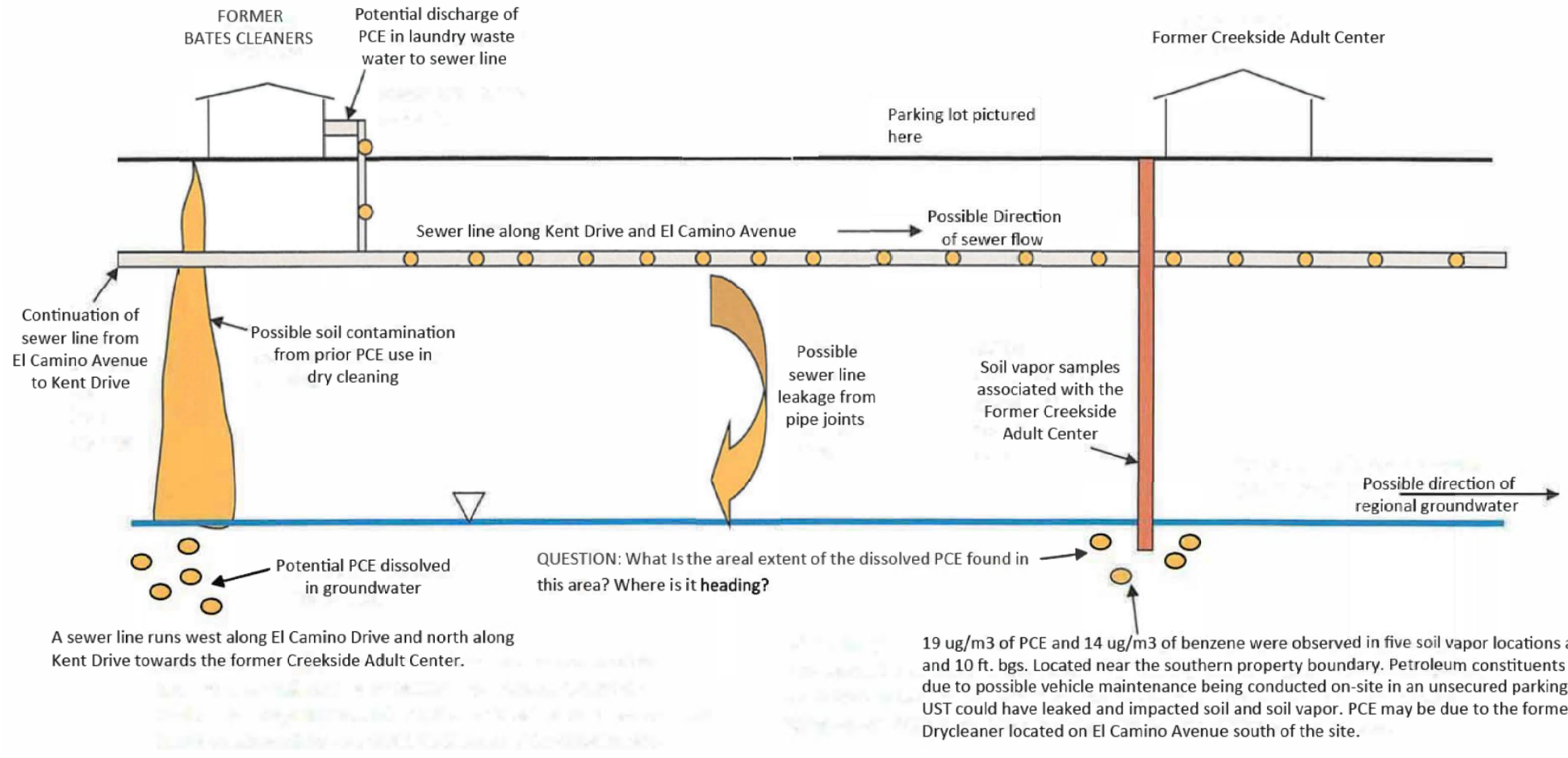
LIONAKIS PROJECT NO:	022002
DSA APPLICATION NO:	02-120501
COPYRIGHT:	LIONAKIS 2022

TITLE
ACCESSIBILITY SITE PLAN

SHEET
GA101

BIM 360://022001 SUSD Arcade MS\022002_ARCHHOST_R20_CENTRAL.rvt
11/15/2022 4:01:07 PM

This Schematic shows two possible ways (disposal or spills to the site soil and leakage from sewer line) that PCE from Bates Cleaners and Petroleum Constituents from possible vehicle maintenance being conducted on-site in an unsecured parking lot, or unknown UST could get to the soil and soil vapor.



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Figure 5
Possible Migration Pathways for PCE Originating from Bates Cleaners to the Former Creekside Adult Center

Tables

TABLE 1
LEAD AND ARSENIC IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CALIFORNIA

From: Atlas Limited Investigation Report
April 2023

Sample ID	Sample Date	Sampling Depth (feet bgs)	Arsenic	Lead
KJMS-1	3/13/2023	0.5	--	**4.8**
KJMS-2	3/13/2023	0.5	--	**7.1**
KJMS-3	3/13/2023	0.5	--	**12**
KJMS-4	3/13/2023	0.5	--	**7.5**
KJMS-5	3/13/2023	0.5	--	**5.6**
KJMS-6	3/13/2023	0.5	--	**5.1**
KJMS-7	3/13/2023	0.5	--	**5.3**
KJMS-8	3/13/2023	0.5	--	**3.6**
KJMS-9	3/13/2023	0.5	--	**27**
KJMS-10	3/13/2023	0.5	--	**9.4**
KJMS-11	3/13/2023	0.5	--	**4.1**
KJMS-12	3/13/2023	0.5	--	**16**
KJMS-13	3/13/2023	0.5	--	**4.8**
KJMS-14	3/13/2023	0.5	--	**3.9**
KJMS-15	3/13/2023	0.5	--	**6.2**
KJMS-16	3/15/2023	0.5	--	**7.5**
KJMS-17	3/15/2023	0.5	--	**8.3**
KJMS-18	3/15/2023	0.5	--	**19**
KJMS-19	3/15/2023	0.5	--	**4.8**
KJMS-20	3/16/2023	0.5	--	**6.8**
KJMS-21	3/16/2023	0.5	--	**7.7**
KJMS-22	3/16/2023	0.5	--	**25**
KJMS-23	3/16/2023	0.5	--	**6.6**
KJMS-24	3/16/2023	0.5	--	**6.2**
KJMS-25	3/16/2023	0.5	--	**6.8**
KJMS-26	3/16/2023	0.5	--	**7.0**
KJMS-27	3/16/2023	0.5	--	**7.4**
KJMS-28	3/16/2023	0.5	--	**4.8**
KJMS-29	3/16/2023	0.5	--	**6.7**
KJMS-AR1	3/14/2023	0.5	**3.6**	--
KJMS-AR2	3/15/2023	0.5	**3.2**	--
KJMS-AR3	3/15/2023	0.5	**5.0**	--
KJMS-AR4	3/15/2023	0.5	**2.6**	--
KJMS-AR5	3/15/2023	0.5	**3.6**	--
KJMS-Dup#1 (KJMS-1)	3/13/2023	0.5	--	**6.8**
KJMS-Dup#2 (KJMS-16)	3/15/2023	0.5	--	**6.0**
KJMS-Dup#3 (KJMS-27)	3/16/2023	0.5	--	**7.8**
KJMS AR DUP (KJMS AR4)	3/15/2023	0.5	**2.5**	--
		HHRA Note 3 [1]	*0.11*	*80*
		USEPA RSLs [2]	*0.68*	*400*

Notes:
All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.

All results expressed in milligrams per kilogram (mg/kg), unless otherwise indicated.

Total Metals analysis via EPA Method 6010B.

bgs = Below ground surface

< 0.003 = Less than the laboratory reporting limit (RL).

Bold text = Laboratory Detection

-- = Not applicable or not analyzed for listed constituent

[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.

[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of the carcinogenic or noncarcinogenic endpoints.

Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels

Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

TABLE 2
ORGANOCHLORINE PESTICIDES IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CALIFORNIA

From: Atlas Limited Investigation Report
April 2023

Sample ID	Sample Date	Sampling Depth (feet bgs)	Aldrin	Alpha BHC	Beta BHC	Delta BHC	Gamma BHC	Chlordane (Technical)	4,4-DDD	4,4-DDE	4,4-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorocyclopentadiene	Methoxychlor	Toxaphene
KJMS-OP1	3/14/2023	0.5	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.25	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.010	<0.010	<0.0025	<0.25
KJMS-OP2	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS-OP3	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS-OP4	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	**0.00035 J**	**0.0052**	**0.0082**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS-OP5	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS OP Dup (KJMS OP4)	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	**0.00088**	**0.0035**	**0.026**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
HHRA Note 3 [1]			*0.039*	*0.086*	*0.30*	*--*	*0.57*	*1.7*	*1.9*	*2.0*	*1.9*	*0.034*	*450*	*450*	*380*	*19*	*--*	*--*	*0.13*	*0.07*	*0.19*	*--*	*320*	*0.45*
USEPA RSLs [2]			*0.039*	*0.086*	*0.30*	*--*	*0.57*	*1.7*	*1.9*	*2.0*	*1.9*	*0.034*	*470*	*--*	*380*	*19*	*--*	*--*	*0.13*	*0.07*	*0.21*	*1.8*	*320*	*0.49*

Notes:
All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.
All results expressed in milligrams per kilogram (mg/kg).
Organochlorine Pesticides (OCPs) were analyzed by EPA Method 8081A.
bgs = Below ground surface
< 0.003 = Less than the laboratory reporting limit (RL).
Bold text = Laboratory Detection
-- = Not applicable or not analyzed for listed constituent
J = Estimated value (CLP Flag)

[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.

[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of carcinogenic or noncarcinogenic endpoints.

Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels

Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

TABLE 3
PCBs IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CALIFORNIA

From: Atlas Limited Investigation Report
April 2023

Sample ID	Sample Date	Sampling Depth (feet bgs)	Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KJMS-1	3/13/2023	0.5	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.014
KJMS-2	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-3	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0027 J
KJMS-4	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-5	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-6	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0023 J
KJMS-7	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-8	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-9	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-10	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-11	3/13/2023	0.5	0.0086 J	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0086 J
KJMS-12	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-13	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-14	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-15	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-16	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-17	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-18	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-19	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-20	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-21	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-22	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-23	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-24	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-25	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-26	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-27	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-28	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-29	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T1-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T2-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T3-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T4-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T1-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T2-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T3-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T4-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-Dup#1 (KJMS-1)	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0027 J
KJMS-Dup#2 (KJMS-16)	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-Dup#3 (KJMS-27)	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T-Dup#1 (KJMS -T3-18")	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
HHRA Note 3 [1]			*0.23*	*4.0*	*0.20*	*0.17*	*0.23*	*0.23*	*0.24*	*0.24*
USEPA RSLs [2]			*0.23*	*4.1*	*0.20*	*0.17*	*0.23*	*0.23*	*0.24*	*0.24*

Notes:

All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.

All results expressed in milligrams per kilogram (mg/kg).

Polychlorinated biphenyls (PCBs) were analyzed by EPA Method 8082.

bgs = Below ground surface

< 0.003 = Less than the laboratory reporting limit (RL).

Bold text = Laboratory Detection

J = Estimated value (CLP Flag)

[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.

[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of carcinogenic or noncarcinogenic endpoints.

Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels

Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

TABLE 4
VOLATILE ORGANIC COMPOUNDS IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2541 KENT DRIVE
SACRAMENTO, CALIFORNIA

Sample ID	Sample Date	Sampling Depth (feet bgs)	VOCs
Shed-1	3/15/2023	0.5	Not Detected
Shed-2	3/15/2023	0.5	Not Detected
Duplicate (Shed-2)	3/15/2023	0.5	Not Detected
HHRA Note 3 (1)			*Varies*
USEPA RSLs (2)			*Varies*

Notes:

All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.

All results expressed in milligrams per kilogram (mg/kg).

Volatile Organic Compounds (VOCs) were analyzed by EPA Method 8260D.

bgs = Below ground surface

See the laboratory report for a full list of constituents analyzed and their respective laboratory reporting limit (RL).

Bold text = Laboratory Detection

[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.

[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of carcinogenic or noncarcinogenic endpoints.

Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels

Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

From: Atlas Limited Investigation Report
April 2023

Table 5
Summary of Soil Vapor Sample Analytical Results
2641 Kent Drive, Sacramento, CA

Boring ID	Sample ID	Sample Date	Sample Depth (feet bgs)	TPHv (C5-C12) (µg/m^3)	Tetrachloroethene (µg/m^3)	Benzene (µg/m^3)	Toluene (µg/m^3)	Ethylbenzene (µg/m^3)	m,p-Xylene (µg/m^3)	o-Xylene (µg/m^3)	Styrene (µg/m^3)	1,2,4-Trimethylbenzene (µg/m^3)	Carbon Disulfide (µg/m^3)	2-Butanone (MEK) (µg/m^3)	Chloromethane (µg/m^3)
SV-1s	SV-1	3/17/2023	3.5 to 5	**1,200**	<6.9	**8.8**	**19**	<4.4	<8.8	<4.4	<4.3	<5.0	<6.3	<30	**2.2**
SV-1d	SV-1	3/17/2023	9 to 10	**1,600**	**19**	**4.6**	**22**	<4.4	**9.9**	<4.4	<4.3	<5.0	<6.3	<30	<2.1
SV-2s	SV-2	3/17/2023	4 to 5	**390**	<6.9	<3.2	**31**	**5.2**	**31**	**7.1**	<4.3	**8.9**	<6.3	<30	<2.1
SV-2d	SV-2	3/17/2023	9 to10	**790**	**9.2**	**5.2**	**9.6**	<4.4	<8.8	<4.4	<4.3	<5.0	<6.3	<30	<2.1
SV-3s	SV-3 5'	4/7/2023	4 to 5	**320**	<6.9	**4.1**	**20**	<4.4	<8.8	<4.4	**45**	<5.0	<6.3	<30	<2.1
SV-3d	SV-3 10'	4/7/2023	9 to10	**620**	<6.9	**5.8**	**24**	<4.4	<8.8	<4.4	**59**	<5.0	<6.3	<30	<2.1
SV-3d	DUP	4/7/2023	9 to10	**350**	<6.9	**3.9**	**19**	<4.4	<8.8	<4.4	**72**	<5.0	<6.3	<30	<2.1
SV-4s	SV-4 5'	4/7/2023	4 to 5	**1,300**	<6.9	**14**	**27**	**4.6**	<8.8	<4.4	**52**	<5.0	**7.6**	<30	<2.1
SV-4d	SV-4 10'	4/7/2023	9 to10	**1,800**	<6.9	**11**	**31**	<4.4	<8.8	<4.4	**63**	<5.0	<6.3	<30	<2.1
SV-5s [4]	SV-5 5'	4/7/2023	4 to 5	**770**	<6.9	**5.8**	**13**	<4.4	<8.8	<4.4	**57**	<5.0	<6.3	**50**	<2.1
SV-5d	SV-5 10'	4/7/2023	9 to10	**2,300**	<6.9	**11**	**25**	<4.4	<8.8	**4.7**	**68**	<5.0	<6.3	<30	<2.1
			Tier 1 ESLs[1]	**3,300**	**15**	**3.2**	**10,000**	**37**	**3,500**	**3,500**	**31,000**	**--**	**--**	**170,000**	**3,100**
			Residential ESLs [2]	**20,000**	**15**	**3.2**	**10,000**	**37**	**3,500**	**3,500**	**31,000**	**--**	**--**	**170,000**	**3,100**
			Commercial ESLs[3]	**83,000**	**67**	**14**	**44,000**	**160**	**15,000**	**15,000**	**130,000**	**--**	**--**	**730,000**	**13,000**

Notes:

µg/m^3 Micrograms per cubic meter
bgs Below ground surface
-- Not applicable, sample not analyzed, or no applicable standard identified

Samples analyzed for Volatile Organic Compounds (VOCs) by Method TO-15.
Only detected VOCs are tablulated. See laboratory report for full list of analytes and method detection limits.
ESLs: Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, August 2019 (Revison 2).

[1] - Tier 1 ESLs for soil vapor reflect the lower of values that are protective of human health under a residential or commercial/industrial land use scenario. These values are intended to be protective of human health under any land use scenario

[2] - Residential soil vapor ESLs are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints. These values are intended to be protective of potential human exposures to shallow soil under a Residential land use scenario

[3] - Commercial (Industrial) soil vapor ESLs are human health-based screening levels for Commercial/Industrial Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints. These values are intended to be protective of potential human exposures to shallow soil under a commercial/industrial land use scenario

[4] - Sample contained detectable concentration of the leak check compound (LCC) 1,1-difluoroethane ; other detected analytes may have been diluted or introduced by ambient air.

XXX Represents a detected concentration in excess of the chemical-specific Residential Health-Based ESL, but equal to or less than the chemical-specific Commercial ESL
XXX Represents a detected concentration in excess of the chemical-specific Residential ESL and Commercial Health-Based ESL

TABLE 6
RESIDUAL ON-SITE COC CONCENTRATIONS
Katherine Johnson Middle School School, CA

Detected Chemicals of Concern	Units	Screening Level Reference	Screening Level for Residential Soil (mg/kg)	Maximum Residual Concentration (mg/kg)	Number of Residual Detections Above the Screening
Total lead	mg/kg	DTSC - SL	80	19.0	0
VOCs	mg/kg	DTSC - SL	varies	ND	0
OCPs	mg/kg	DTSC - SL	1.9 to 2.3	0.026	0
All PCBs	mg/kg	RSL	0.24 to 35	ND	0

NOTES:
COC = chemical of concern
mg/kg = milligrams per kilogram
ND = not detected at or above the laboratory detection limit
DTSC-SL = DTSC Screening Level (SL) from Human Health Risk Assessment Note No. 3 (May 2022)
RSL = regional screening level for resident soil established by U.S. Environmental Protection Agency

Detected Chemicals of Concern	Units	Screening Level Reference	Tier 1 Screening Level for Residential Indoor Air Direct Exposure/SL for Residential Air Cancer Endpoint (µg/m³)	Maximum Residual Concentration (µg/m³)	Number of Residual Detections Above the Screening Level
Benzene	µg/m³	RWQCB Tier 1/DTSC SL	0.0097	14	2
Tetrachlorothene	µg/m³	RWQCB Tier 1/DTSC SL	0.48	19	1

NOTES:
COC = chemical of concern
95%-UCL = 95-percent upper confidence limit of the mean calculated by ProUCL 5.1.002, based on confirmation-sample data set
µg/m³ = micrograms per cubic meter
n/c = not calculated, because maximum residual concentration is less than the cleanup goal.
ND = not detected at or above the laboratory detection limit
DTSC-SL = DTSC Screening Level (SL) from Human Health Risk Assessment Note No. 3 (June 2020) published by Human and Ecological Risk Office (HERO)
RSL = regional screening level for resident indoor air established by U.S. Environmental Protection Agency (May 2021)

TABLE 7
HUMAN HEALTH SCREENING EVALUATION CALCULATIONS FOR COPCs IN SOIL
Proposed Katherine Johnson Middle School 2641 Kent Drive, Sacramento, CA

			Cancer				Noncancer		
COC	**Units**	**Exposure-Point Concentration (EPC)**	**Residential Screening Level**	**Source**	**Ratio of EPC to Screening Level**	**Calculated Excess Cancer Risk**	**Residential Screening Level**	**Source**	**Ratio of EPC to Screening Level**
COPCs Detected in Soil-Gas Samples									
Benzene 5 ft.	ug/m^3	14.0	0.097	DTSC-SL	1.4E+02	**1.4E-04**	3.1	DTSC-SL	**4.5E+00**
Benzene 10 ft.	ug/m^3	11.0	0.097	DTSC-SL	1.1E+02	**1.1E-04**	3.1	DTSC-SL	**3.5E+00**
Tetrachloroethene (PCE)	ug/m^3	19.0	0.46	RSL	4.1E+01	**4.1E-05**	42.0	RSL	**4.5E-01**
			Cumulative Calculated Excess Cancer Risk =			**3.0E-04**	**Calculated Hazard Index =**		**8.5E+00**

NOTES:
For soil samples, the EPC was assumed to be the maximum detected concentration in soil samples collected at the site.
COC = chemical of concern
DTSC-SL = DTSC Screening Level (SL) from Human Health Risk Assessment Note No. 3 (May 2022) published by Human and Ecological Risk Office (HERO)
EPC = exposure-point concentration
mg/kg = milligrams per kilogram
n/a = not applicable or not available
NC = non-carcinogenic
RSL = regional screening level for resident soil established by U.S. Environmental Protection Agency (May 2021)
In accordance with DTSC guidance, lead was evaluated separately from the other chemicals

Table 8: LeadSpread 9 - Lead Risk Assessment Spread Sheet - 95% UCL Concentration

LeadSpread 9- LEAD RISK ASSESSMENT SPREADSHEET
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USERS GUIDE to Leadspread Version 9

INPUT	
MEDIUM	**LEVEL**
Lead in Soil/Dust (µg/g)	10.05
Respirable Dust (µg/cubic m)	1.5

EXPOSURE PARAMETERS

Parameter	units	adults	children
Days per week	days/wk	7	
Days per week, occupational	-	5	
Geometric Standard Deviation	-	1.6	
Blood lead level of concern	(µg/dl)	1.1	1
Skin area, residential	square cm	6032	2373
Skin area occupational	square cm	6032	
Soil adherence	µg/square cm	70	200
Dermal uptake constant	(µg/dl)/(µg/day)	0.00027	0.00048
Soil ingestion	mg/day	30	80
Soil ingestion, pica	mg/day		1000
Ingestion constant	(µg/dl)/(µg/day)	0.09	0.16
Bioavailability	unitless	0.6	
Breathing rate	cubic meter/day	20	10
Inhalation constant	(µg/dl)/(µg/day)	0.082	0.192

Click here for REFERENCES

OUTPUT

ENDPOINT and RECEPTOR	50th Percentile Change in Blood Pb (µg/dl)	90th Percentile Change in Blood Pb (µg/dl)	95th Percentile Change in Blood Pb (µg/dl)	PRG-90 (µg/g)	PRG-95 (µg/g)
BLOOD Pb, ADULT	0.02	0.03	0.04	356	301
BLOOD Pb, CHILD	0.1	0.1	0.2	70	59
BLOOD Pb, PICA CHILD	1.0	1.8	2.1	6	5
BLOOD Pb, OCCUPATIONAL	0.0	0.0	0.0	499	421

PATHWAYS

ADULTS	Residential Pathway Contribution	Residential Pathway Contribution	Residential Pathway Contribution	Occupational Pathway contribution	Occupational Pathway contribution	Occupational Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	6.8E-5	0.00	4%	4.9E-5	0.00	4%
Soil Ingestion	1.6E-3	0.02	96%	1.2E-3	0.01	96%
Inhalation	2.5E-6	0.00	0.1%	1.8E-6	0.00	0.1%

CHILDREN	Typical Pathway contribution	Typical Pathway contribution	Typical Pathway contribution	with pica Pathway contribution	with pica Pathway contribution	with pica Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	1.4E-4	0.00	1.7%		0.00	0.1%
Soil Ingestion	7.7E-3	0.08	98%	9.6E-2	0.96	100%
Inhalation	2.9E-6	0.00	0.0%		0.00	0.0%

Click here for Equations

*Pathway Exposure Factor

Table 9: LeadSpread 9 - Lead Risk Assessment Spread Sheet - Max Concentration

LeadSpread 9- LEAD RISK ASSESSMENT SPREADSHEET
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USERS GUIDE to Leadspread Version 9

INPUT	
MEDIUM	**LEVEL**
Lead in Soil/Dust (µg/g)	27
Respirable Dust (µg/cubic m)	1.5

EXPOSURE PARAMETERS

Parameter	units	adults	children
Days per week	days/wk	7	
Days per week, occupational	-	5	
Geometric Standard Deviation	-	1.6	
Blood lead level of concern	(µg/dl)	1.1	1
Skin area, residential	square cm	6032	2373
Skin area occupational	square cm	6032	
Soil adherence	µg/square cm	70	200
Dermal uptake constant	(µg/dl)/(µg/day)	0.00027	0.00048
Soil ingestion	mg/day	30	80
Soil ingestion, pica	mg/day		1000
Ingestion constant	(µg/dl)/(µg/day)	0.09	0.16
Bioavailability	unitless	0.6	
Breathing rate	cubic meter/day	20	10
Inhalation constant	(µg/dl)/(µg/day)	0.082	0.192

Click here for REFERENCES

OUTPUT

ENDPOINT and RECEPTOR	50th Percentile Change in Blood Pb (µg/dl)	90th Percentile Change in Blood Pb (µg/dl)	95th Percentile Change in Blood Pb (µg/dl)	PRG-90 (µg/g)	PRG-95 (µg/g)
BLOOD Pb, ADULT	0.05	0.08	0.10	356	301
BLOOD Pb, CHILD	0.2	0.4	0.5	70	59
BLOOD Pb, PICA CHILD	2.6	4.7	5.6	6	5
BLOOD Pb, OCCUPATIONAL	0.0	0.1	0.1	499	421

PATHWAYS

ADULTS	Residential Pathway Contribution	Residential Pathway Contribution	Residential Pathway Contribution	Occupational Pathway contribution	Occupational Pathway contribution	Occupational Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	6.8E-5	0.00	4%	4.9E-5	0.00	4%
Soil Ingestion	1.6E-3	0.04	96%	1.2E-3	0.03	96%
Inhalation	2.5E-6	0.00	0.1%	1.8E-6	0.00	0.1%

CHILDREN	Typical Pathway contribution	Typical Pathway contribution	Typical Pathway contribution	with pica Pathway contribution	with pica Pathway contribution	with pica Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	1.4E-4	0.00	1.7%		0.00	0.1%
Soil Ingestion	7.7E-3	0.21	98%	9.6E-2	2.59	100%
Inhalation	2.9E-6	0.00	0.0%		0.00	0.0%

Click here for Equations

*Pathway Exposure Factor

UCL Statistics for Uncensored Full Data Sets

Table 10: Work Sheet - ProUCL 5.1 Statistics for Lead

User Selected Options	
Date/Time of Computation	ProUCL 5.14/15/2023 10:05:45 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

lead

General Statistics

Total Number of Observations	32	Number of Distinct Observations	25
		Number of Missing Observations	0
Minimum	3.6	Mean	8.363
Maximum	27	Median	6.8
SD	5.634	Std. Error of Mean	0.996
Coefficient of Variation	0.674	Skewness	2.343

Normal GOF Test

Shapiro Wilk Test Statistic	0.668	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.93	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.321	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.154	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	10.05	95% Adjusted-CLT UCL (Chen-1995)	10.44
		95% Modified-t UCL (Johnson-1978)	10.12

Gamma GOF Test

A-D Test Statistic	2.374	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.751	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.264	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.156	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	3.693	k star (bias corrected MLE)	3.368
Theta hat (MLE)	2.264	Theta star (bias corrected MLE)	2.483
nu hat (MLE)	236.4	nu star (bias corrected)	215.6
MLE Mean (bias corrected)	8.363	MLE Sd (bias corrected)	4.557
		Approximate Chi Square Value (0.05)	182.6
Adjusted Level of Significance	0.0416	Adjusted Chi Square Value	181

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	9.873	95% Adjusted Gamma UCL (use when n<50)	9.961

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.865	**Shapiro Wilk Lognormal GOF Test**

53	5% Shapiro Wilk Critical Value					0.93	Data Not Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic					0.223	**Lilliefors Lognormal GOF Test**					
55	5% Lilliefors Critical Value					0.154	Data Not Lognormal at 5% Significance Level					
56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data					1.281	Mean of logged Data					1.982
60	Maximum of Logged Data					3.296	SD of logged Data					0.49
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL					9.698	90% Chebyshev (MVUE) UCL					10.36
64	95% Chebyshev (MVUE) UCL					11.37	97.5% Chebyshev (MVUE) UCL					12.76
65	99% Chebyshev (MVUE) UCL					15.49						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL					10	95% Jackknife UCL					10.05
72	95% Standard Bootstrap UCL					9.931	95% Bootstrap-t UCL					11.18
73	95% Hall's Bootstrap UCL					10.69	95% Percentile Bootstrap UCL					10.02
74	95% BCA Bootstrap UCL					10.48						
75	90% Chebyshev(Mean, Sd) UCL					11.35	95% Chebyshev(Mean, Sd) UCL					12.7
76	97.5% Chebyshev(Mean, Sd) UCL					14.58	99% Chebyshev(Mean, Sd) UCL					18.27
77												
78	**Suggested UCL to Use**											
79	95% Student's-t UCL					10.05	or 95% Modified-t UCL					10.12
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											

Table 11
Background Threshold Value for Arsenic
Proposed Katherine Johnson Middle School, Sacramento, CA

Analyte	Unit	Number of Samples	Detection Rate	Mean	Std Dev	Min Detected	Max Detected	Distribution	Background Threshold Value (BTV) Method	Selected BTV
Arsenic	mg/kg	17	100%	3.759	0.974	2.55	6.6	Normal	95% UTL (Normal) with 95% Coverage	**6.179**

Notes:
The background data set consists of 12 Arden data points and 5 Katherine Johnson data points.
If duplicate exists, the average of primary and duplicate results is used as a single data point.
UTL - Upper Tolerance Limit
USEPA. 2022. ProUCL Version 5.2 (Software). Retrieved from https://www.epa.gov/land-research/proucl-software. June.

APPENDIX A

Limited Investigation Report and Addendum by Atlas Technical Consultants

A-1 Limited Investigation Report by Atlas

A-2 Limited Investigation Report Addendum by Atlas

Appendix A-1

Limited Investigation Report by Atlas

LIMITED INVESTIGATION REPORT

Katherine Johnson Middle School
2641 Kent Drive
Sacramento, California

Submitted to:

Kitchell CEM
2450 Venture Oaks Way, Suite 500
Sacramento, CA 95833

Submitted by:

Atlas Technical Consultants
1117 Lone Palm Ave, Suite 201B
Modesto, California 95351

Atlas Project # Z054000356

April 12, 2023

April 12, 2023

Ms. Martha Estrada
Program Manager
Kitchell CEM
2450 Venture Oaks Way, Suite 500
Sacramento, CA 95833

Subject: **Limited Investigation Report**
Katherine Johnson Middle School
2641 Kent Drive
Sacramento, California 95864

Dear Ms. Estrada:

Atlas Technical Consultants (Atlas), on behalf of the Kitchell CEM (Kitchell), has prepared this *Limited Investigation Report* to document field activities and findings performed in March 2023 at the former Creekside Adult Center located at 2641 Kent Drive in Sacramento, California (**Figure 1**). The purpose of this investigation was to assess subsurface soil and vapor conditions in accordance with the *Katherine Johnson Middle School - PEA Investigation Proposed Sampling* document provided to Atlas via email correspondence on March 3, 2023 (**Appendix A**). This letter report documents field activities and results of this investigation.

1.0 SCOPE OF WORK

Atlas was contracted to perform the collection of soil samples to characterize existing conditions across the site and the collection of vapor samples along the southern border of the site. All soil assessment activities were performed under the direction of a State of California-licensed engineer.

1.1 SOIL SAMPLING ACTIVITIES

From March 13 to 16, 2023, soil sampling activities were conducted at the site. Tailgate safety meetings were conducted each day prior to commencement of field work. A total of 55 soil borings were advanced at the site at the locations shown in **Figure 2**. The soil borings were performed using a hand auger to reach the target sample depths of approximately 0.5 and 1.5 feet below ground surface (bgs). Discrete soil samples were collected at each location except where noted.

Soil samples KJMS-1 through KJMS-29 were collected across the central portion of the site at depths of 0.5 feet below ground surface (bgs). Due to wet conditions, sample locations KJMS-25 through KJMS-29 were newly covered with up to 18 inches of clean road base material to allow construction vehicles to traverse the site. At these locations, the road base material was cleared and the samples were collected at 0.5 feet below the surface of native soil.

Soil samples Shed-1 and Shed-2 were collected on two sides of a former storage shed near the southeast corner of the site at depths of 0.5 feet bgs.

Soil samples KJMS-T1 through KJMS-T4 were collected on four sides of a former transformer on the south-central portion of the site at depths of 0.5 feet and 1.5 feet bgs.

Soil samples KJMS-AR1 through KJMS-AR5 were collected on the northern and western portion of the site, generally landscaped with grass, at depths of 0.5 feet.

Soil samples KJMS-OP1 through KJMS-OP5 were collected on the northern and western portion of the site, generally landscaped with grass. The samples were collected at a total of 20 locations, at depths of 0.5 feet bgs, and then field composited at a 4:1 ratio.

The soil was visually and olfactory-inspected for evidence of staining or odors suggestive of subsurface impacts during the site assessment activities. Soil samples were field screened using the headspace method for volatile organic compounds (VOCs) using a photoionization detector (PID) calibrated to 100 parts per million using isobutylene gas. Atlas recorded the PID measurements on field notes. Additionally, Atlas used a hand-held global positioning unit to record the locations of each sample location.

All down-hole equipment was field-decontaminated prior collection of each soil sample. Investigative derived waste was not generated as part of this assessment.

Duplicate samples were collected for 10% of the soil samples.

Copies of field notes are included in **Appendix B**.

1.2 LABORATORY ANALYSIS – SOIL SAMPLES

All soil samples collected as part of this assessment were immediately placed in a cooler with ice and transported under chain-of-custody protocol to Pace Analytical laboratory in Bakersfield, California (California ELAP Accreditation #1186). Soil samples collected during this investigation were submitted to the analytical laboratory for analysis of the following:

- Soil samples KJMS-1 through KJMS-29: Polychlorinated Biphenyls (PCBs) via USEPA Method 8082 and Total Lead via USEPA Method 6010B
- Shed-1 and Shed-2: Volatile Organic Compounds (VOCs) via USEPA Method 8260D
- KJMS-T1 through KJMS-T4: PCBs via USEPA Method 8082
- KJMS-AR1 through KJMS-AR5: Arsenic via USEPA Method 6010B
- KJMS-OP1 through KJMS-OP5: Organochlorine Pesticides (OCPs) via USEPA Method 8082

1.3 SOIL VAPOR SAMPLING ACTIVITIES

On March 14 and 17, 2023, soil vapor sampling activities were conducted at the site. Tailgate safety meetings were conducted each day prior to commencement of field work. Two sets of two soil borings were advanced at the site at the locations shown in **Figure 2**.

On March 14, 2023, began advancement of the first soil boring using a hand auger to reach the target depths of approximately 5 and 10 feet bgs to install temporary vapor points. Hard pan was encountered between 2 and 3 feet bgs and again at 5 feet bgs. A soil vapor point was constructed. Due to the presence of hardpan and slow progress, Atlas ceased installation of the remaining three soil vapor points.

On March 17, 2023, an Atlas geologist supervised the installation of two sets of temporary soil vapor probes (SV-1s, SV-1d, SV-2s and SV-2d) by TEG-Northern California (TEG), a C-57 licensed drilling contractor. Soil vapor probe locations are shown on **Figure 2**.

One shallow one-inch diameter soil boring was advanced to a depth of 5 feet bgs and two deeper one-inch diameter soil borings were each advanced to a depth of 10 feet bgs to facilitate the collection of soil vapor samples.

The soil vapor probe advanced via hand auger on March 14 was constructed by placing approximately six inches of #30 sand in the bottom of each borehole. A filter, 3.5 centimeters in length, was attached to ¼-inch diameter nylon tubing was placed on top of the #30 sand and approximately six more inches of #30 sand was placed above the filter. Approximately six inches of dry bentonite was placed above the sand pack and hydrated bentonite was placed in the remaining annular space extending to the ground surface. A valve was attached to the tubing at the surface and the probe was allowed to stabilize for more than 48 hours, as appropriate for soil vapor probes installed via rotary tooling.

The three soil vapor probes installed on March 17 were advanced to the target depth, then retracted between six inches and one foot while vapor flow was tested. If vapor flow was sufficient, the rod was then secured at the surface by compacting the soil around it and adding hydrated bentonite to seal the space between the rod and the boring. A threaded length of dedicated tubing was then fed into the rod and secured at the bottom. Each rod and tubing assembly was then allowed to stabilize for two hours, per DTSC guidelines for soil vapor sampling.

In preparation for sampling, a three-way probe sampling assembly was constructed for each soil vapor probe. One of the three ports was attached to the nylon tubing connected to the soil vapor filter. A second port was connected to a syringe for purging and a vacuum/pressure gauge to measure the vacuum while purging. The third port was used to withdraw soil vapor samples. At least two hours after installation, each soil vapor probe was purged and sampled according to current California Department of Toxic Substance Control (DTSC) soil vapor sampling guidelines using laboratory-supplied manifolds and stainless-steel Summa canisters. Sample withdrawal rates were restricted to 100 to 200 milliliters (ml) per minute by a flow restrictor device included within the sampling assembly. The sampling assemblies were purged by removing three purge volumes of air using a 60-ml plastic syringe. The necessary purge volumes were determined by adding the volume of the annular space associated with the sand pack and the internal volume of sampling assembly. Once purging was complete, the purging branch of the manifold was closed via a valve and a 200-ml per minute flow restrictor was connected to a dedicated 400-ml Summa canister, provided by an off-site analytical laboratory, to collect the sample.

The probe sampling assemblies dedicated to each soil vapor probe location were subjected to “shut in” and leak testing prior to use. The “shut in” test was used to check the integrity of the assembly by establishing a vacuum of approximately 10 to 15 inches of mercury (in Hg) by closing external valves and drawing the purging syringe back to create a vacuum and then holding the vacuum steady for approximately five minutes. Both assemblies maintained vacuum of 10 to 15 in Hg for five minutes indicating an absence of leaks.

During purging, testing, and sampling activities, a “leak test” was conducted. A temporary plastic enclosure was constructed to envelope the assemblies. A leak check compound consisting of 1,1-difluoroethane (1,1-DFA) was introduced into both enclosures, exposing the assembly’s

connections, surface seals, and the top of the temporary soil gas probe to the leak check compound.

Soil vapor samples were collected from soil vapor probes SV-1s, SV-1d, SV-2s and SV-2d using dedicated Summa canisters. Upon completion of sampling, all the soil vapor probes were removed, and the borings were filled to grade with neat cement grout, in accordance with State of California regulations.

Copies of field notes are included in **Appendix B**.

1.4 LABORATORY ANALYSIS – VAPOR SAMPLES

Following collection of soil vapor samples, the Summa canisters were shipped under chain-of-custody procedures to H&P Mobile Geochemistry Inc. laboratory in Carlsbad, California. The soil vapor samples were analyzed for VOCs per EPA Method TO-15, and for the leak check compound 1,1-DFA.

2.0 SOIL ANALYTICAL RESULTS

Laboratory analytical concentrations for soil samples collected as part of this investigation are summarized in the following sections. Analytical results for all soil samples collected during this investigation are also presented in **Tables 1** through **4. Table 6** contains a summary detected analytes for the soil samples and duplicate soil samples collected during this investigation.

Copies of the official laboratory analytical reports and chain-of-custody documentation for samples analyzed during this investigation are provided in **Appendix C** of this report.

2.1 Lead and Arsenic

A total of 29 soil samples collected at depths of approximately 0.5 feet bgs, including one duplicate sample, collected during this investigation were analyzed for lead. Lead was detected in all 29 samples collected during this investigation at concentrations ranging from 3.6 mg/kg (KJMS-8) to 27 mg/kg (KJMS-9).

A total of 5 soil samples collected at depths of approximately 0.5 feet bgs, including one duplicate sample, collected during this investigation were analyzed for Arsenic. Arsenic was detected in all five samples collected during this investigation at concentrations ranging from 2.6 mg/kg (KJMS-AR4) to 5.0 mg/kg (KJMS-AR3).

Table 1 contains tabular summaries of the laboratory analytical results for lead and arsenic in soil samples.

2.2 Organochlorine Pesticides

A total of five soil samples collected at depths of approximately 0.5 feet bgs, including one duplicate sample, were analyzed for OCPs. 4,4-DDE and 4,4-DDT were detected in soil sample KJMS-OP4 at concentrations of 0.0052 mg/kg and 0.0082 mg/kg, respectively. An estimated concentration of 4,4-DDD (0.00035 mg/kg) was also detected in this soil sample. No other OCPs were detected in any other soil samples collected during this investigation.

Summaries of the laboratory analytical results for OCPs in soil samples are provided in **Table 2**.

2.3 Polychlorinated Biphenyls

Thirty-three soil samples collected at depths of approximately 0.5 feet bgs and four soil samples collected at depths of approximately 1.5 feet bgs, including four duplicate samples, were analyzed for polychlorinated biphenyls (PCBs). Total PCBs were detected in soil sample KJMS-1 at a concentration of 0.014 mg/kg. Estimated concentrations of Aroclor 1260 were detected in three soil samples at concentrations of 0.0086 mg/kg or less. PCBs were not detected in any other soil samples collected during this investigation.

Summaries of the laboratory analytical results for PCBs in soil samples are provided in **Table 3**.

2.4 Volatile Organic Compounds

A total of two soil samples collected at depths of approximately 0.5 feet bgs, including one duplicate sample, collected during this investigation were analyzed for VOCs. VOCs were not detected in any soil samples collected during this investigation.

Table 4 contains tabular summaries of the laboratory analytical results for VOCs in soil samples.

3.0 VAPOR ANALYTICAL RESULTS

Laboratory analytical concentrations for vapor samples collected as part of this investigation are summarized in the following sections. Analytical results for vapor samples collected during this investigation are also presented in **Table 5**.

Copies of the official laboratory analytical reports and chain-of-custody documentation for samples analyzed during this investigation are provided in **Appendix D** of this report.

A total of four vapor samples collected at depths of either 5 feet or 10 feet bgs during this investigation were analyzed for VOCs.

Tetrachloroethene was detected in samples SV-1d and SV-2d at concentrations of 19 micrograms per cubic meter (µg/m³) and 9.2 µg/m³, respectively.

Benzene was detected in three samples collected during this investigation at concentrations ranging from 4.6 µg/m³ (SV-1d) to 8.8 µg/m³ (SV-1s).

Toluene was detected in all four samples collected during this investigation at concentrations ranging from 9.6 µg/m³ (SV-2d) to 31 µg/m³ (SV-2s).

Ethylbezene was detected in sample SV-2s at a concentration of 5.2 µg/m³.

Xylenes (m,p and o) were detected in two of the samples SV-1d and SV-2s at maximum concentration of 31 µg/m³.

1,2,4-Trimethylbenzene was detected in sample SV-2s at a concentration of 8.9 µg/m³.

Chloromethane was detected in sample SV-1s at a concentration of 2.2 µg/m³.

4.0 COMPARISON TO HEALTH-BASED SCREENING LEVELS

4.1 Comparison to DTSC HHRA Note 3 Modified Screening Levels – Soil Results

The purpose of the additional assessment was to assess the presence of lead, arsenic, OCPs PCBs and VOCs in shallow soil. Laboratory analytical results for soil samples collected as part of this investigation were compared to the Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels for Residential Land Use (June 2020). Where applicable, the DTSC Screening Levels are also presented in **Tables 1** through **4**.

Laboratory analytical results for soil samples collected as part of this investigation were also compared to the United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLS, May 2021) for residential soils. These values are human health-based screening levels for Residential Land Use. Where applicable, the USEPA Screening Levels are also provided in **Tables 1** through **4**.

Based on laboratory analysis of the soil samples collected in March 2023, lead, OCPs, PCBs, and VOCs were not detected in any soil samples collected during this investigation at concentrations in excess of the DTSC or USEPA Screening Levels.

Based on laboratory analysis of the soil samples collected in March 2023, arsenic was detected in all five soil samples collected during this investigation at concentrations in excess of the DTSC and USEPA Screening Levels.

4.2 Comparison to Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board – Vapor Results

Laboratory analytical results for vapor samples collected as part of this investigation were compared to the Environmental Screening Levels (ESLs) for Tier 1, Commercial and Residential Land Use (August 2019, Revision 2). The Screening Levels are also presented in **Table 5**.

Based on laboratory analysis of the vapor samples collected in March 2023, tetrachloroethene was detected in one vapor sample and benzene was detected in three samples collected during this investigation at concentrations in excess of their respective Tier 1 and Residential Health-Based ESLs.

No other analytes were detected in vapor samples collected during this investigation at concentrations in excess of their respective Tier 1, Residential or Commercial Health-Based ESL.

6.0 LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Atlas's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of the Client for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Atlas. To the extent this report is based on information provided to Atlas by third parties, Atlas may have made efforts to verify this third party information, but Atlas cannot guarantee the completeness or accuracy of this third party information. The opinions expressed and data

collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Atlas.

Atlas appreciates the opportunity to assist you on this project. If you have any questions or require additional information, please contact Jeanne Homsey at (209) 579-2221.

Respectfully submitted,

Atlas

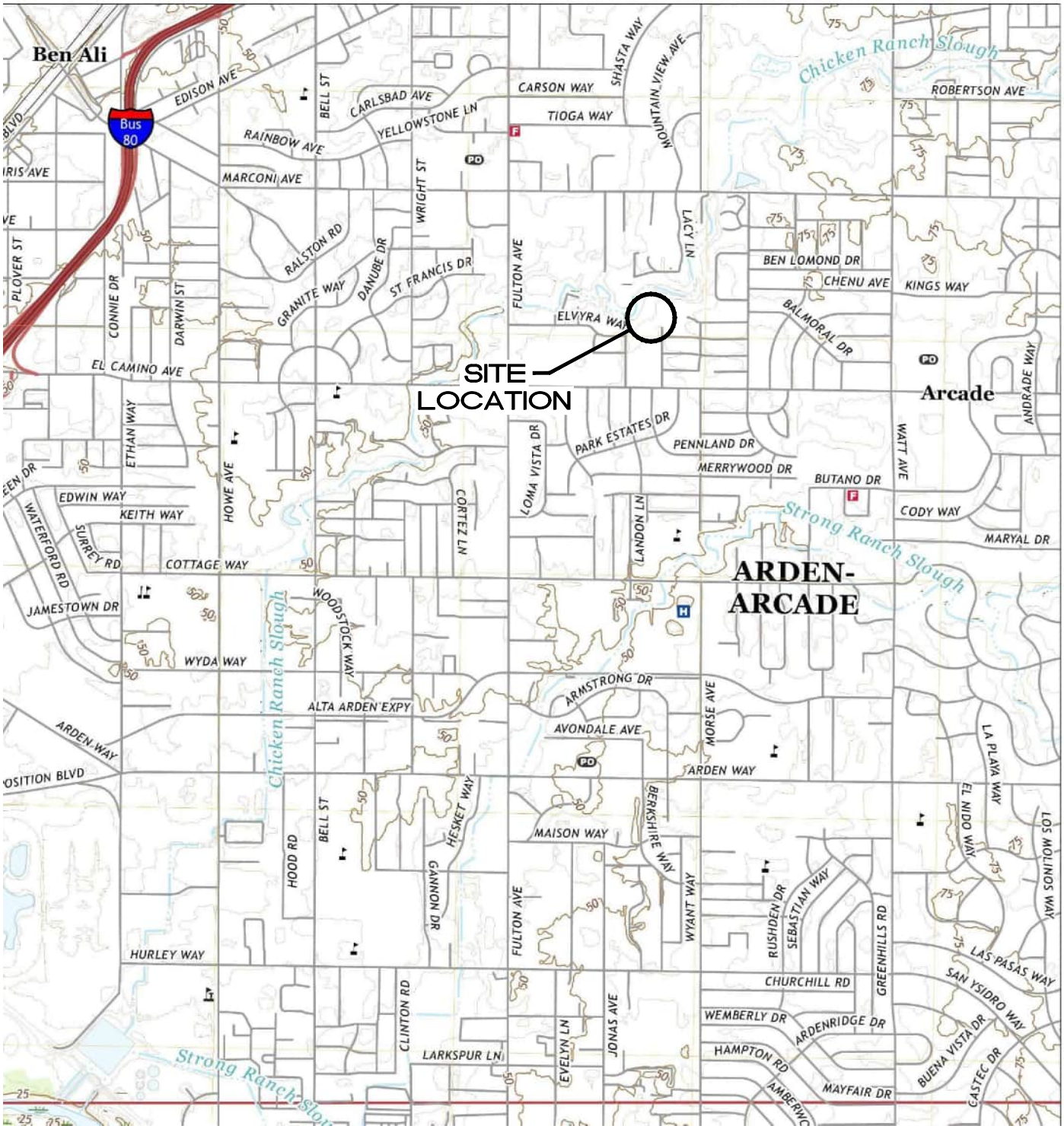
Jim Kundert
Project Geologist
Email: jim.kundert@oneatlas.com

Jeanne Homsey, PE
Branch Manager
Email: jeanne.homsey@oneatlas.com

Attachments



FIGURES



0 2000 4000

SCALE, FT

SOURCE: USGS TOPO MAP, SACRAMENTO EAST, CA QUAD, 2021

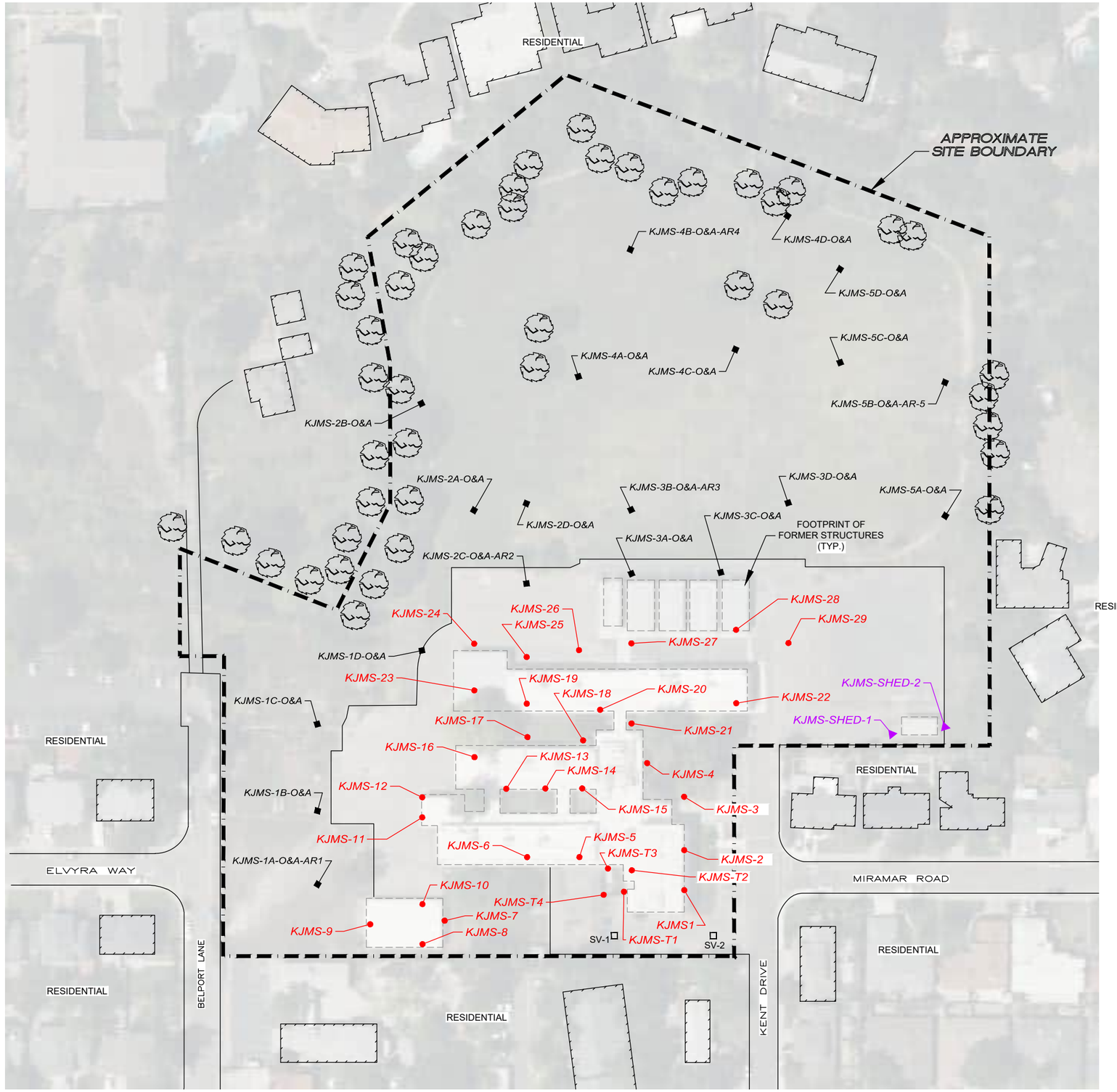
SITE VICINITY MAP

KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CA

PROJECT NUMBER: Z054000356		DATE: 3/23/23	FIGURE 1
APPROVED BY: JH		DRAWN BY: BK	

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LEGEND

- SOIL SAMPLE
- SOIL SAMPLE
- SOIL SAMPLE
- SOIL SAMPLE

0 100 200

APPROX. SCALE, FT

NOTE: SCALE AND LOCATIONS ARE APPROXIAMTE

S:\Projects-BST\KITCHEL CM\Z054000356 KJ MIDDLE SCHOOL\SITEPLAN.dwg

PROJECT NUMBER: Z054000356 | DATE: 3/28/23 | FIGURE 2

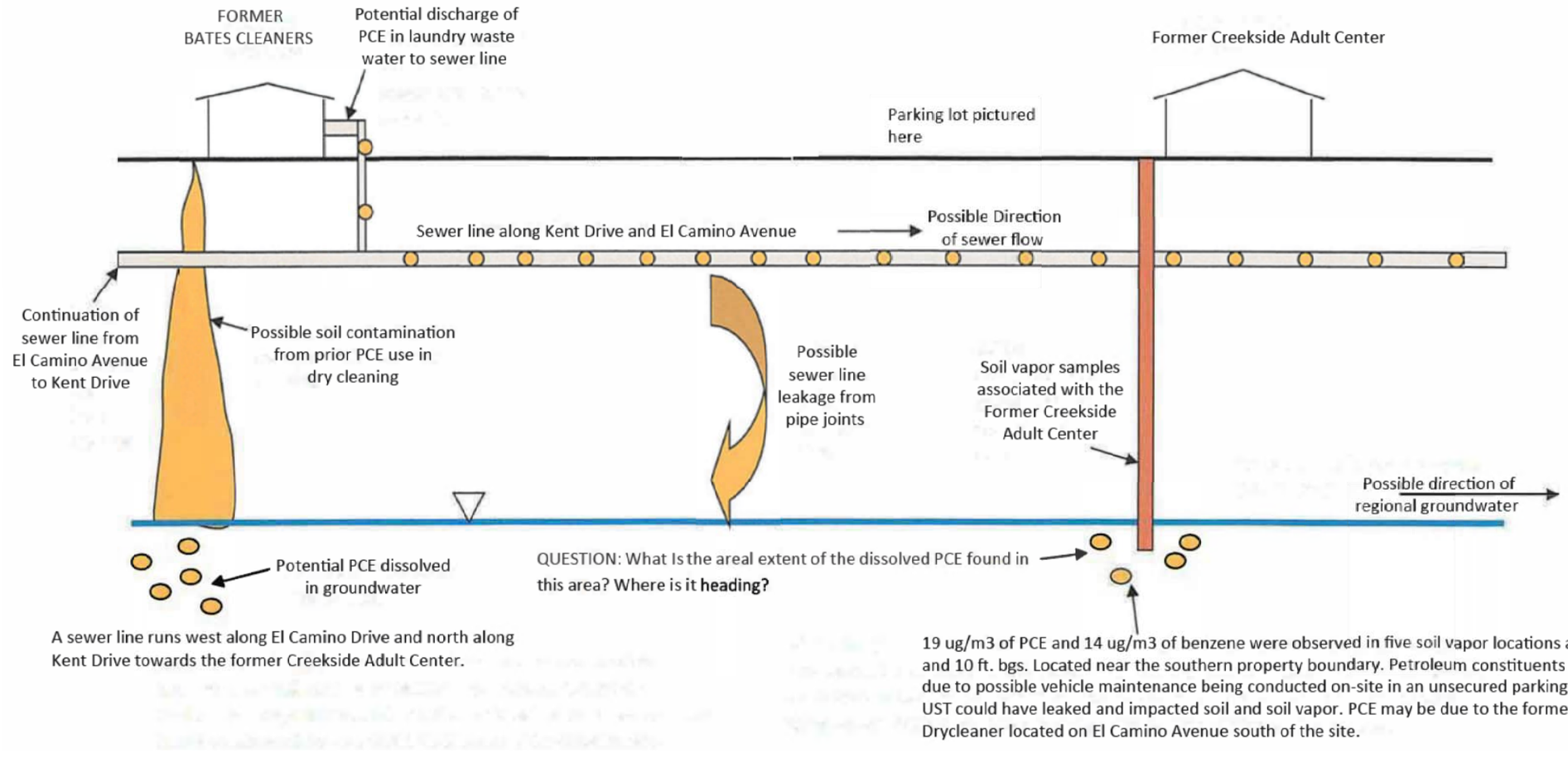
APPROVED BY: JH | DRAWN BY: BK

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SITE PLAN & SAMPLE LOCATIONS

KATHERINE JOHNSON MIDDLE SCHOO;L
2641 KENT DRIVE
SACRAMENTO, CA

This Schematic shows two possible ways (disposal or spills to the site soil and leakage from sewer line) that PCE from Bates Cleaners and Petroleum Constituents from possible vehicle maintenance being conducted on-site in an unsecured parking lot, or unknown UST could get to the soil and soil vapor.



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Figure 5
Possible Migration Pathways for PCE Originating from Bates Cleaners to the Former Creekside Adult Center

TABLES

TABLE 1
LEAD AND ARSENIC IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CALIFORNIA

Sample ID	Sample Date	Sampling Depth (feet bgs)	Arsenic	Lead
KJMS-1	3/13/2023	0.5	--	**4.8**
KJMS-2	3/13/2023	0.5	--	**7.1**
KJMS-3	3/13/2023	0.5	--	**12**
KJMS-4	3/13/2023	0.5	--	**7.5**
KJMS-5	3/13/2023	0.5	--	**5.6**
KJMS-6	3/13/2023	0.5	--	**5.1**
KJMS-7	3/13/2023	0.5	--	**5.3**
KJMS-8	3/13/2023	0.5	--	**3.6**
KJMS-9	3/13/2023	0.5	--	**27**
KJMS-10	3/13/2023	0.5	--	**9.4**
KJMS-11	3/13/2023	0.5	--	**4.1**
KJMS-12	3/13/2023	0.5	--	**16**
KJMS-13	3/13/2023	0.5	--	**4.8**
KJMS-14	3/13/2023	0.5	--	**3.9**
KJMS-15	3/13/2023	0.5	--	**6.2**
KJMS-16	3/15/2023	0.5	--	**7.5**
KJMS-17	3/15/2023	0.5	--	**8.3**
KJMS-18	3/15/2023	0.5	--	**19**
KJMS-19	3/15/2023	0.5	--	**4.8**
KJMS-20	3/16/2023	0.5	--	**6.8**
KJMS-21	3/16/2023	0.5	--	**7.7**
KJMS-22	3/16/2023	0.5	--	**25**
KJMS-23	3/16/2023	0.5	--	**6.6**
KJMS-24	3/16/2023	0.5	--	**6.2**
KJMS-25	3/16/2023	0.5	--	**6.8**
KJMS-26	3/16/2023	0.5	--	**7.0**
KJMS-27	3/16/2023	0.5	--	**7.4**
KJMS-28	3/16/2023	0.5	--	**4.8**
KJMS-29	3/16/2023	0.5	--	**6.7**
KJMS-AR1	3/14/2023	0.5	**3.6**	--
KJMS-AR2	3/15/2023	0.5	**3.2**	--
KJMS-AR3	3/15/2023	0.5	**5.0**	--
KJMS-AR4	3/15/2023	0.5	**2.6**	--
KJMS-AR5	3/15/2023	0.5	**3.6**	--
KJMS-Dup#1 (KJMS-1)	3/13/2023	0.5	--	**6.8**
KJMS-Dup#2 (KJMS-16)	3/15/2023	0.5	--	**6.0**
KJMS-Dup#3 (KJMS-27)	3/16/2023	0.5	--	**7.8**
KJMS AR DUP (KJMS AR4)	3/15/2023	0.5	**2.5**	--
		HHRA Note 3 [1]	*0.11*	*80*
		USEPA RSLs [2]	*0.68*	*400*

Notes:
All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.

All results expressed in milligrams per kilogram (mg/kg), unless otherwise indicated.

Total Metals analysis via EPA Method 6010B.

bgs = Below ground surface

< 0.003 = Less than the laboratory reporting limit (RL).

Bold text = Laboratory Detection

-- = Not applicable or not analyzed for listed constituent

[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.

[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of the carcinogenic or noncarcinogenic endpoints.

Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels

Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

TABLE 2
ORGANOCHLORINE PESTICIDES IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CALIFORNIA

Sample ID	Sample Date	Sampling Depth (feet bgs)	Aldrin	Alpha BHC	Beta BHC	Delta BHC	Gamma BHC	Chlordane (Technical)	4,4-DDD	4,4-DDE	4,4-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorocyclopentadiene	Methoxychlor	Toxaphene
KJMS-OP1	3/14/2023	0.5	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.25	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.010	<0.010	<0.0025	<0.25
KJMS-OP2	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS-OP3	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS-OP4	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	**0.00035 J**	**0.0052**	**0.0082**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS-OP5	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
KJMS OP Dup (KJMS OP4)	3/15/2023	0.5	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.050	**0.00088**	**0.0035**	**0.026**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.0020	<0.00050	<0.050
HHRA Note 3 [1]			*0.039*	*0.086*	*0.30*	*--*	*0.57*	*1.7*	*1.9*	*2.0*	*1.9*	*0.034*	*450*	*450*	*380*	*19*	*--*	*--*	*0.13*	*0.07*	*0.19*	*--*	*320*	*0.45*
USEPA RSLs [2]			*0.039*	*0.086*	*0.30*	*--*	*0.57*	*1.7*	*1.9*	*2.0*	*1.9*	*0.034*	*470*	*--*	*380*	*19*	*--*	*--*	*0.13*	*0.07*	*0.21*	*1.8*	*320*	*0.49*

Notes:
All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.
All results expressed in milligrams per kilogram (mg/kg).
Organochlorine Pesticides (OCPs) were analyzed by EPA Method 8081A.
bgs = Below ground surface
< 0.003 = Less than the laboratory reporting limit (RL).
Bold text = Laboratory Detection
-- = Not applicable or not analyzed for listed constituent
J = Estimated value (CLP Flag)

[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.

[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of carcinogenic or noncarcinogenic endpoints.

Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels

Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

TABLE 3
PCBs IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CALIFORNIA

Sample ID	Sample Date	Sampling Depth (feet bgs)	Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KJMS-1	3/13/2023	0.5	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.014
KJMS-2	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-3	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0027 J
KJMS-4	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-5	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-6	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0023 J
KJMS-7	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-8	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-9	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-10	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-11	3/13/2023	0.5	0.0086 J	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0086 J
KJMS-12	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-13	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-14	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-15	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-16	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-17	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-18	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-19	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-20	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-21	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-22	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-23	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-24	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-25	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-26	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-27	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-28	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-29	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T1-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T2-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T3-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T4-6"	3/14/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T1-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T2-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T3-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T4-18"	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-Dup#1 (KJMS-1)	3/13/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0027 J
KJMS-Dup#2 (KJMS-16)	3/15/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-Dup#3 (KJMS-27)	3/16/2023	0.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
KJMS-T-Dup#1 (KJMS -T3-18")	3/15/2023	1.5	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
HHRA Note 3 [1]			*0.23*	*4.0*	*0.20*	*0.17*	*0.23*	*0.23*	*0.24*	*0.24*
USEPA RSLs [2]			*0.23*	*4.1*	*0.20*	*0.17*	*0.23*	*0.23*	*0.24*	*0.24*

Notes:
All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.
All results expressed in milligrams per kilogram (mg/kg).
Polychlorinated biphenyls (PCBs) were analyzed by EPA Method 8082.
bgs = Below ground surface
< 0.003 = Less than the laboratory reporting limit (RL).
Bold text = Laboratory Detection
J = Estimated value (CLP Flag)
[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.
[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of carcinogenic or noncarcinogenic endpoints.
Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels
Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

TABLE 4
VOLATILE ORGANIC COMPOUNDS IN SOIL
KATHERINE JOHNSON MIDDLE SCHOOL
2541 KENT DRIVE
SACRAMENTO, CALIFORNIA

Sample ID	Sample Date	Sampling Depth (feet bgs)	VOCs
Shed-1	3/15/2023	0.5	Not Detected
Shed-2	3/15/2023	0.5	Not Detected
Duplicate (Shed-2)	3/15/2023	0.5	Not Detected
HHRA Note 3 (1)			*Varies*
USEPA RSLs (2)			*Varies*

Notes:
All analyses were conducted at Pace Analytical in Bakersfield, California. Environmental Laboratory Accreditation Program (ELAP) #1186.

All results expressed in milligrams per kilogram (mg/kg).

Volatile Organic Compounds (VOCs) were analyzed by EPA Method 8260D.

bgs = Below ground surface

See the laboratory report for a full list of constituents analyzed and their respective laboratory reporting limit (RL).

Bold text = Laboratory Detection

[1] - Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (June 2020). These values are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints.

[2] - United States Environmental Protection Agency (USEPA, May 2021) Regional Screening Levels for residential soils reflecting the lower of carcinogenic or noncarcinogenic endpoints.

Represents a detected concentration in excess of the Note Number 3, DTSC-Modified Screening Levels

Represents a detected concentration in excess of the USEPA Regional Screening Levels and the DTSC-Modified Screening Levels

Table 5
Summary of Soil Vapor Sample Analytical Results
2641 Kent Drive, Sacramento, CA

Boring ID	Sample ID	Sample Date	Sample Depth (feet bgs)	TPHv (C5-C12) (µg/m^3)	Tetrachloroethene (µg/m^3)	Benzene (µg/m^3)	Toluene (µg/m^3)	Ethylbenzene (µg/m^3)	m,p-Xylene (µg/m^3)	o-Xylene (µg/m^3)	1,2,4-Trimethylbenzene (µg/m^3)	Chloromethane (µg/m^3)
SV-1s	SV-1	3/17/2023	3.5 to 5	**1,200**	<6.9	**8.8**	**19**	<4.4	<8.8	<4.4	<5.0	**2.2**
SV-1d	SV-1	3/17/2023	9 to 10	**1,600**	**19**	**4.6**	**22**	<4.4	**9.9**	<4.4	<5.0	<2.1
SV-2s	SV-2	3/17/2023	4 to 5	**390**	<6.9	<3.2	**31**	**5.2**	**31**	**7.1**	**8.9**	<2.1
SV-2d	SV-2	3/17/2023	9 to10	**790**	**9.2**	**5.2**	**9.6**	<4.4	<8.8	<4.4	<5.0	<2.1
			Tier 1 ESLs[1]	**3,300**	**15**	**3.2**	**10,000**	**37**	**3,500**	**3,500**	**--**	**3,100**
			Residential ESLs [2]	**20,000**	**15**	**3.2**	**10,000**	**37**	**3,500**	**3,500**	**--**	**3,100**
			Commercial ESLs[3]	**83,000**	**67**	**14**	**44,000**	**160**	**15,000**	**15,000**	**--**	**13,000**

Notes:

µg/m^3 Micrograms per cubic meter

bgs Below ground surface

-- Not applicable, sample not analyzed, or no applicable standard identified

Samples analyzed for Volatile Organic Compounds (VOCs) by Method TO-15.

Only detected VOCs are tablulated. See laboratory report for full list of analytes and method detection limits.

ESLs: Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, August 2019 (Revison 2).

[1] - Tier 1 ESLs for soil vapor reflect the lower of values that are protective of human health under a residential or commercial/industrial land use scenario. These values are intended to be protective of human health under any land use scenario

[2] - Residential soil vapor ESLs are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints. These values are intended to be protective of potential human exposures to shallow soil under a Residential land use scenario

[3] - Commercial (Industrial) soil vapor ESLs are human health-based screening levels for Commercial/Industrial Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints. These values are intended to be protective of potential human exposures to shallow soil under a commercial/industrial land use scenario

XXX Represents a detected concentration in excess of the chemical-specific Residential Health-Based ESL, but equal to or less than the chemical-specific Commercial ESL

XXX Represents a detected concentration in excess of the chemical-specific Residential ESL and Commercial Health-Based ESL

TABLE 6
DUPLICATE SOIL SAMPLE SUMMARY
KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CALIFORNIA

Sample ID	Duplicate Sample ID	Analyte	Sample Concentration	Corresponding Duplicate Concentration	Percent Variance
KJMS-1	KJMS-Dup#1	Lead	**4.8**	**6.8**	0.42
KJMS-16	KJMS-Dup#2	Lead	**7.5**	**6.0**	0.20
KJMS-27	KJMS-Dup#3	Lead	**7.4**	**7.8**	0.05
KJMS-AR4	KJMS AR DUP	Arsenic	**2.6**	**2.5**	0.04
KJMS-OP4	KJMS OP Dup	4,4-DDD	**0.00035**	**0.00088**	1.51
KJMS-OP4	KJMS OP Dup	4,4-DDE	**0.0052**	**0.0035**	0.33
KJMS-OP4	KJMS OP Dup	4,4-DDT	**0.0082**	**0.026**	2.17
KJMS-1	KJMS-Dup#1	Aroclor 1260	**0.014**	**0.0027**	0.81

Notes:
All results expressed in milligrams per kilogram (mg/kg).
Only sample analytes with Laboratory Detections are presented.

APPENDIX A

Katherine Johnson Middle School - PEA Investigation Proposed Sampling

Katherine Johnson Middle School – PEA Investigation Proposed Sampling

Shallow Soil Sampling 0-6 inches

Lead (6010B) & PCBs (8082): on all four sides of each structure. 29 samples plus 3 duplicates (32 Total)

Organochlorine Pesticides (OCPs) (8081A) and arsenic (6010B) - 20 locations per guidance in field areas only – undisturbed soil – 10 acres 20 locations

- 5 composite samples for OCPs plus (1 Duplicate) (6 Total)
- 5 discrete samples for arsenic plus (1 Duplicate) (6 Total)

Polychlorinated Biphenyls (PCBs) by 8082 collected at 0-6 inches and 12-18 inches – 8 samples around SMUD Transformers plus one duplicate (9 Total)

Volatile Organic Compound (VOCs) by 8260D – 2 samples on each side of shed (plus one duplicate (3)

Soil Vapor Samples for TO-15 – 2 southeast corner of parcel at 5 feet & 10 feet at each location

- Each sample locations needs to be surveyed by GPS unit to sub-meter accuracy
- 10% Duplicates samples
- 20% Matrix spike/Matrix Spike Duplicates (MD/MS)
- All samples follow SW-846 QC
- Level II data validation package by lab
- One equipment blank/one field blank/one trip blank

Detection Limits for OCPs need to meet the limits in Table 2 below.

Table 2. Analytical Methods and Detection Limits for Selected OCPs

Pesticide	Methods[2]	CAS No.[3]	DL[4] mg/kg
Aldrin	8081A	309-00-2	0.005
a-BHC	8081A	319-84-6	0.005
b-BHC	8081A	319-85-7	0.005
g-BHC (Lindane)	8081A	58-89-9	0.005
d-BHC	8081A	319-86-8	0.005
Total Chlordane[1]	8081A	57-74-9	0.05
DBCP[5]	8081A	96-12-8	0.01
DDD	8081A	72-54-8	0.05
DDE	8081A	72-55-9	0.05
DDT	8081A	50-29-3	0.05
Dieldrin	8081A	60-57-1	0.005
Endosulfan I	8081A	959-98-8	0.005
Endosulfan II	8081A	33213-65-9	0.005
Endosulfan sulfate	8081A	1031-07-8	0.005
Endrin	8081A	72-20-8	0.05
Endrin aldehyde	8081A	7421-93-4	0.05
Endrin ketone	8081A	53494-70-5	0.05
Heptachlor	8081A	76-44-8	0.05
Heptachlor epoxide	8081A	1024-57-3	0.005
Hexachlorobenzene (HCB)	8081A	118-74-1	0.3
Hexachlorocyclopentadiene	8081A	77-47-4	0.5
Methoxychlor	8081A	72-43-5	0.005
Toxaphene	8081A	8001-35-2	0.05

Notes:

1 = Report total Chlordane (based on a Technical Chlordane standard)
2 = Although other methods may be used to quantify OPCs, DTSC recommends the use of 8081A as the primary method of quantitation
3 = Chemical Abstract Service registry number
4 = Detection Limit recommended for risk assessment purposes
5 = If sampling for this compound is indicated, inclusion in the method must be requested in the workplan and/or QAPP

APPENDIX B

Field Note Documentation

ATC
ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

Field Report

FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: 031323	Page 1 of 1
ATC Representative(s): Alex Flores.	Project: KJMS	
Role: Technician	Location: 2641 Kent Dr., Sacramento, CA	
Contact Information: Jeanne Homsey	Project No: 20540C00356	Task No: 06054
Scope of Work: DTSC soil sampling.	Weather: Cloudy - Raining	Temperature: 43°F
___ Monitoring X Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
0845	Arrive to site. Check in with Ilona McLaren and Tyler
	Walk to soil gas probe locations. 2 - 18" squares of surface
	asphalt has been cut off for SV probe installations.
	Tailgate safety meeting. Wet, slippery & muddy conditions
	throughout the site and mostly in middle of site - North end
	Undisturbed. Most of the Southern side has trenches
	filled with water and all on-site structures have been
	removed.
	Begin marking soil sample locations with flags at the
	request of on-site Construction company Flint.
	Area of southern most classrooms very difficult to access -
	Wet soil from trenches making it hard to mark with
	flags. PID calibration with 100 ppm Isobutylene - 100ppm ✓
	Begin soil sampling at 6" bgs in undisturb soil - Soil
	Samples collected in 8 oz glass jars - KJMS-1-15 with
	blind duplicate KJMS-Dup#1 from KJMS-1 collected
	today. Samples to be analyze for: PCB's (8082) and
	Lead (6010B). Samples to Pace Analytical.
	Log all sampled locations with GPS.
	Clean up, load up - Contact PM & JK for supplies and start time.
1612	Leaving site

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

ATC
ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

Field Report

FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: 031423	Page 1 of 1
ATC Representative(s): Alex Flores.	Project: KJMS	
Role: Technician	Location: 2641 Kent Dr, Sacramento, CA	
Contact Information: Jeanne Howsen	Project No: 20540000356	Task No: 06054
Scope of Work:	Weather: Cloudy	Temperature: 42°F
___ Monitoring X Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
0855	Arrive to site. Tailgate Safety meeting. Check in with Ilona M. Prep. for soil vapor point installation by hand augering
0938	Jim Kundert arrives to site with materials and Vapor pins. Begin on SW location - water coming in boring at 2 feet bgs. Note there is a subsurface electrical conduit trench with former wiring to transformer. SV has to be relocated.
	Mob to SV gas on SE location. Begin hand augering hard pan encountered a 2' bgs - to 3' bgs - Clay soil hard pan encountered again at 5' bgs. shallow SV gas pin constructed - Notified Ilona M. of very slow install progress due to hard pan. Request TEG drilling contractor to install the SV gas Vapor pins.
	Mark site and SG vapor locations for USA.
	Go over sample plan with Jim Kundert - Jim will Sample for: OCP's and Arsenic locations.
1400	PID mini Rae 3000 cal. with 100ppm isobutylene = 100 ppm ✓
	Locate former on site transformer - Sample KJMS - TF-4 at 6" bgs. Sampled for: PCB's (8082) Samples to Pace A
	Coordinate soil samples Pick up with Pace. Clean up - loadup.
1600	Leaving site.

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

ATC
ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

Field Report

FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: 031523	Page 1 of
ATC Representative(s): Alex Flores.	Project: KJMS	
Role:Technician	Location: 2641 Kent Dr, Sacramento, CA	
Contact Information: Jeanne Howsey	Project No: 2054000356	Task No: 06054
Scope of Work:	Weather: Partly cloudy	Temperature: 44°F
___ Monitoring X Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
0855	Arrive to site. Tailgate Safety meeting - Sign in at office - check with Ilona M. and informed of areas that have been sampled -
0908	Jim K. arrives to site. PID cal. with 100ppm Isobutylene ✓ Continue soil sampling. Transformer - KJMS-T1-4 @ 18" bgs. Blind duplicate collected from KJMS-T3-18" identified as KJMS-Dup.#1. Samples to be analyzed for: PCB's (8082).
	PID Mini Rae 3000 cal. with 100ppm Isobutylene = 100 ppm ✓
	Begin logging soil sample locations from JK (KJMS-1A-D O&A locations - Sampled on 031423) and transformer sample locations. Sample Shed - KJMS-Shed 1&2. Duplicate from Shed-2
	Continue sampling for PCB's and Pb. KJMS-16-19 Blind duplicate collected from KJMS-16 identified as KJMS-Dup #2. this 5 soil samples were collected 6" bgs in undisturbed soil - log sample locations with GPS. Collect PID readings from samples.
	Samples to Pace Analytical.
	Clean up, load up.
1548	Leaving site.

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

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ATC
ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

Field Report

FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: 031623	Page 1 of 1
ATC Representative(s): Alex Flores.	Project: KJMS	
Role: Technician	Location: 2641 Kent Dr., Soto. CA	
Contact Information: Jeanne Homsey	Project No: 2054000356	Task No: 06054
Scope of Work:	Weather: Clear, Sunny	Temperature: 46°F
___ Monitoring X Assessment ___ Remediation ___ Closure	Contractor:	

Time:	Comments:
0855	Arrive to site. Tailgate Safety meeting. Sing in at office. Check in with Ilona M. notified of sample areas completed.
	PID calibration - 100ppm isobutylene - 100ppm ✓
	Continue soil sampling for: PCB's and lead KJMS-20-29
	Blind duplicate KJMS-Dup #3 collected from KJMS-27 identified as KJMS-Dup #3. Samples collected 6" bgs in undisturbed soil.
	Note: soil samples KJMS-25-29 under a 12-18" road base material - Sampled KJMS-25-28 from existing trench - and cleared road base gravel for KJMS-29. Screen all collected soil samples with PID.
	Begin collecting GPS sample locations for: KJMS-20-29 and KJMS-2A-D, 3A-D, 4A-D & 5A-D.
	Completed soil sampling. Samples to Pace Analytical. Clean up, load up.
1525	Leaving site.
	Transported samples to Pace Analytical Courier.

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

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031323

Lead & PCB's @6"

1	1100	0.0 PDI
Dup #1	(1100)	0.0
2	1110	0.1
3	1120	0.0
4	1130	0.0
5	1200	0.0
6	1210	0.0
7	1220	0.1
8	1230	0.0
9	1240	0.0
10	1250	0.1
11	1430	0.0
12	1440	0.0
13	1450	0.0
14	1500	0.0
15	1515	0.0

031523 PID @6"

16	1335	0.0
17 Dup 2	1400	0.0
18	1415	0.0
19	1425	0.0

031623.

20	0945	0.0
21	1005	0.0
22	1022	0.0
23	1040	0.0
24	1058	0.0
25	1112	0.0
26	1225	0.0
27	1248 Dup#3	0.0
28	1300	0.0
29	1330	0.0

Under roadbase approx 12" to 18"

031423

Transformer

T1-6"	1416	0.0 ppm
T2-6"	1430	0.0
T3-6"	1442	1.8
T4-6"	1450	0.1

031523

T1-18"	0948	0.0 ppm
T2-18"	1002	0.0 ppm
T3-18"	1020	Dup#1 0.0 ppm
T4-18"	1040	0.0 ppm

031523

Shed-1-6"	0.0	1230
Shed-2-6"	0.0	1245
Shed-Dup	0.0	—

PID ppm

THINK 12 Think Safe | Work Safe | Live Safe	Atlas Employee Health & Safety Policy Manual	Policy Number:	05
		Page:	1 of 1
	Appendix 05-04 – Daily Tailgate Safety Meeting Form	Revision Number:	00
		Revision Date:	6/30/2020

Site Name & Number: KJMS, 2641 Kent Drive, Scto. **Atlas Project Number:** Z054000356

Date & Time of Meeting: March 13, 2023 / 0848 **Name of Presenter:** Alex Flores

Work Being Performed: Soil Sampling/ Soil Vapor Pin Installation

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Safety Meeting. This inspection should include a review of project site equipment, hazards, specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Safety Meeting. For subsequent days, any changes to the site or operations must be covered in the Tailgate Safety Meeting. In addition, "Task-Specific" Job Safety Analysis (JSA) for the tasks/activities at the project site must be integrated into the HASP and Tailgate discussions. Tailgate Meetings should be performed each day. Employees, client representatives and subcontractors must review the Tailgate Safety Meeting, be briefed on the topics and acknowledge the HSE topics by signing this form. Individuals not fluent in the English language must have the site's health safety and environmental requirements translated to them

- ☑ Are all employees physically able to perform their job duties?
- ☑ Emergency evacuation area identified?
- ☑ Subcontractor interactions or questions?
- ☑ Any "Shared Learning" items?
- ☐ Has PPE been checked?

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

PPE	Exclusion Zone	Site Workers
Weather - Raining	Slippery Conditions	Muddy conditions
Tool Safety	Slips, trips, falls	Good Housekeeping

☑ **Client Requirements** - By checking the box to the left, the presenter of the Tailgate Meeting acknowledges that all client-specific requirements have been completed for both Atlas and Subcontractor employees.

By signing this Tailgate Safety Meeting form, you are acknowledging that you have read, reviewed and understand the health and safety topics discussed on this form.

Print Name	Signature	Company	Date
Alex Flores	Alex Flo	Atlas	031323

ATLAS

Arrival Accountability Assessment (AAA)

Purpose

This document has been created to provide guidance to Atlas employees on what each employee must do prior to the start of work every day. This document is a checklist of sorts that reminds employees of important steps to perform in order to help identify and protect employees from hazards. This document is to assist in identifying jobsite hazards in the site conditions, equipment or operations, and individually documented and included with the 05-04 Tailgate Safety Meeting Form.

Manager:	Jeanne Homsey	**Phone Number:**	209 601-9731
BSO:	John Sellman	**Phone Number:**	209 872-5291
RSO:		**Phone Number:**	
RSC:	Greg Fiodorowicz	**Phone Number:**	401 302-2822
CORE Health Injury Case Management		**Phone Number:**	855-282-6331

1. Review JSA(s) for all tasks.
2. Based on JSA(s) for the tasks(s) all tools necessary to complete the task(s) are accessible and in good condition.
3. Constantly assess for unidentified hazards not listed in the task JSA. Update the JSAs on a regular basis, as conditions change, or when unidentified hazards are recognized to eliminate hazards. If a hazard cannot be eliminated STOP Work and notify your manager or RSC.
4. Communicate all emergency procedures and contact information to employees. (911 for all medical emergencies, CORE Health for all non-emergency injuries/vehicle incidents)
5. Establish and review Emergency Evacuation Procedures, Exit and Rally points with employees, identify the location and access to first aid kits, eyewash stations, and fire extinguishers.
6. If your task requires the use of hazardous chemicals, confirm the location of the SDS for that hazardous chemical.
7. Verify correct PPE is worn for the hazards that are being faced at the site and additional PPE as detailed in JSA are available and ready to be used. a. Minimum PPE: hard hat, safety glasses, reflective vest, gloves (based on task) and safety toed boots
8. Verify there are adequate means of communicating with others while on site.
9. If vehicle traffic is present make sure employees have Traffic Management Equipment available. (cones, tape, barricades, high visibility and reflective clothing)
10. Review the daily weather forecast and plan accordingly.
11. Ensure there is adequate lighting in the areas where work will be performed and compensate with additional mobile lighting if required.

****If any task on this AAA cannot be completed for any reason, a STOP work must be initiated. Contact the project manager and resolution made before work may commence.**

THINK 12 Think Safe | Work Safe | Live Safe	Atlas Employee Health & Safety Policy Manual	Policy Number:	05
		Page:	1 of 1
	Appendix 05-04 – Daily Tailgate Safety Meeting Form	Revision Number:	00
		Revision Date:	6/30/2020

Site Name & Number: KJMS, 2641 Kent Drive, Scto. **Atlas Project Number:** Z054000356

Date & Time of Meeting: March 14, 2023, 031523 0900 **Name of Presenter:** Alex Flores

Work Being Performed: Soil Sampling/ Soil Vapor Pin Installation

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Safety Meeting. This inspection should include a review of project site equipment, hazards, specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Safety Meeting. For subsequent days, any changes to the site or operations must be covered in the Tailgate Safety Meeting. In addition, "Task-Specific" Job Safety Analysis (JSA) for the tasks/activities at the project site must be integrated into the HASP and Tailgate discussions. Tailgate Meetings should be performed each day. Employees, client representatives and subcontractors must review the Tailgate Safety Meeting, be briefed on the topics and acknowledge the HSE topics by signing this form. Individuals not fluent in the English language must have the site's health safety and environmental requirements translated to them

☑ Are all employees physically able to perform their job duties?	☐ Any "Shared Learning" items?
☑ Emergency evacuation area identified?	☐ Has PPE been checked?
☑ Subcontractor interactions or questions?	

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

PPE	Exclusion Zone	Site Workers, Stakeholders.
Weather- Raining	Slippery conditions	Muddy Conditions.
Slips, trips, falls,	Tool Safety	Good Housekeeping

☑ **Client Requirements** - By checking the box to the left, the presenter of the Tailgate Meeting acknowledges that all client-specific requirements have been completed for both Atlas and Subcontractor employees.

By signing this Tailgate Safety Meeting form, you are acknowledging that you have read, reviewed and understand the health and safety topics discussed on this form.

Print Name	Signature	Company	Date
Alex Flores	Alex Flores	Atlas	031423

ATLAS

THINK 12 Think Safe | Work Safe | Live Safe	Atlas Employee Health & Safety Policy Manual	Policy Number:	05
		Page:	1 of 1
	Appendix 05-04 – Daily Tailgate Safety Meeting Form	Revision Number:	00
		Revision Date:	6/30/2020

Site Name & Number: KJMS, 2641 Kent Drive, Scto. **Atlas Project Number:** Z054000356

Date & Time of Meeting: March 16, 2023, 0900 **Name of Presenter:** Alex Flores

Work Being Performed: Soil Sampling/ Soil Vapor Pin Installation

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Safety Meeting. This inspection should include a review of project site equipment, hazards, specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Safety Meeting. For subsequent days, any changes to the site or operations must be covered in the Tailgate Safety Meeting. In addition, "Task-Specific" Job Safety Analysis (JSA) for the tasks/activities at the project site must be integrated into the HASP and Tailgate discussions. Tailgate Meetings should be performed each day. Employees, client representatives and subcontractors must review the Tailgate Safety Meeting, be briefed on the topics and acknowledge the HSE topics by signing this form. Individuals not fluent in the English language must have the site's health safety and environmental requirements translated to them

- ☑ Are all employees physically able to perform their job duties?
- ☑ Emergency evacuation area identified?
- ☑ Subcontractor interactions or questions?
- ☐ Any "Shared Learning" items?
- ☐ Has PPE been checked?

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

PPE	Exclusion Zone	Traffic Safety
Heavy eq. Op. Safety	Slippery Conditions	Muddy Conditions
Slips, trips, falls	Good Housekeeping	Site Workers Safety
Tool Safety		

☑ **Client Requirements** - By checking the box to the left, the presenter of the Tailgate Meeting acknowledges that all client-specific requirements have been completed for both Atlas and Subcontractor employees.

By signing this Tailgate Safety Meeting form, you are acknowledging that you have read, reviewed and understand the health and safety topics discussed on this form.

Print Name	Signature	Company	Date
Alex Flores	Alex Flores	Atlas	03/16/23

ATLAS

ATLAS

Field Report

FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: 3-14-2023	Page 1 of 3
ATC Representative(s): JK, AF	Project: KJMS soil	
Role:Technician	Location: Kent Ave, Sacramento	
Contact Information:	Project No:	Task No: 06054
Scope of Work: ___ Monitoring X Assessment ___ Remediation ___ Closure	Weather: raining, windy	Temperature: 50s ↓
	Contractor:	

Time:	Comments:
0935	onsite (AF signed in for both) windy & rainy condition
	tailgate & retrieve AF & measuring wheel Logo used
	set up & advance SV 1 S pavement precut to avoid
	encounter water by 3 Ft bgs. suspect trench proximity has allowed
	infiltration.
	move to SV-2 precut, at east end of paved lot.
-1120	hand auger to 5 ft w/AF ; hand pass from 2.5 to 5 feet
	- drive to Home Depot for sand
	- construct vapor point. Determine that hand installation would not be effective based on time requirements
	- contact TEG to arrange installation & sampling ; work for USA
	sample soil locations in open field to west ; 1st composite for organophosphates and Arsenic OA1a, b, c, d composited for OP, OA1a used for arsenic.
	samples to Pace Sacramento courier

		PID
OP1	OA1a → AR1	0.0
	OA1b	0.0
	OA1c	0.0
	OA1d	0.0

1520 -1620	clean up ; sign out, offsite

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

ATLAS

Field Report

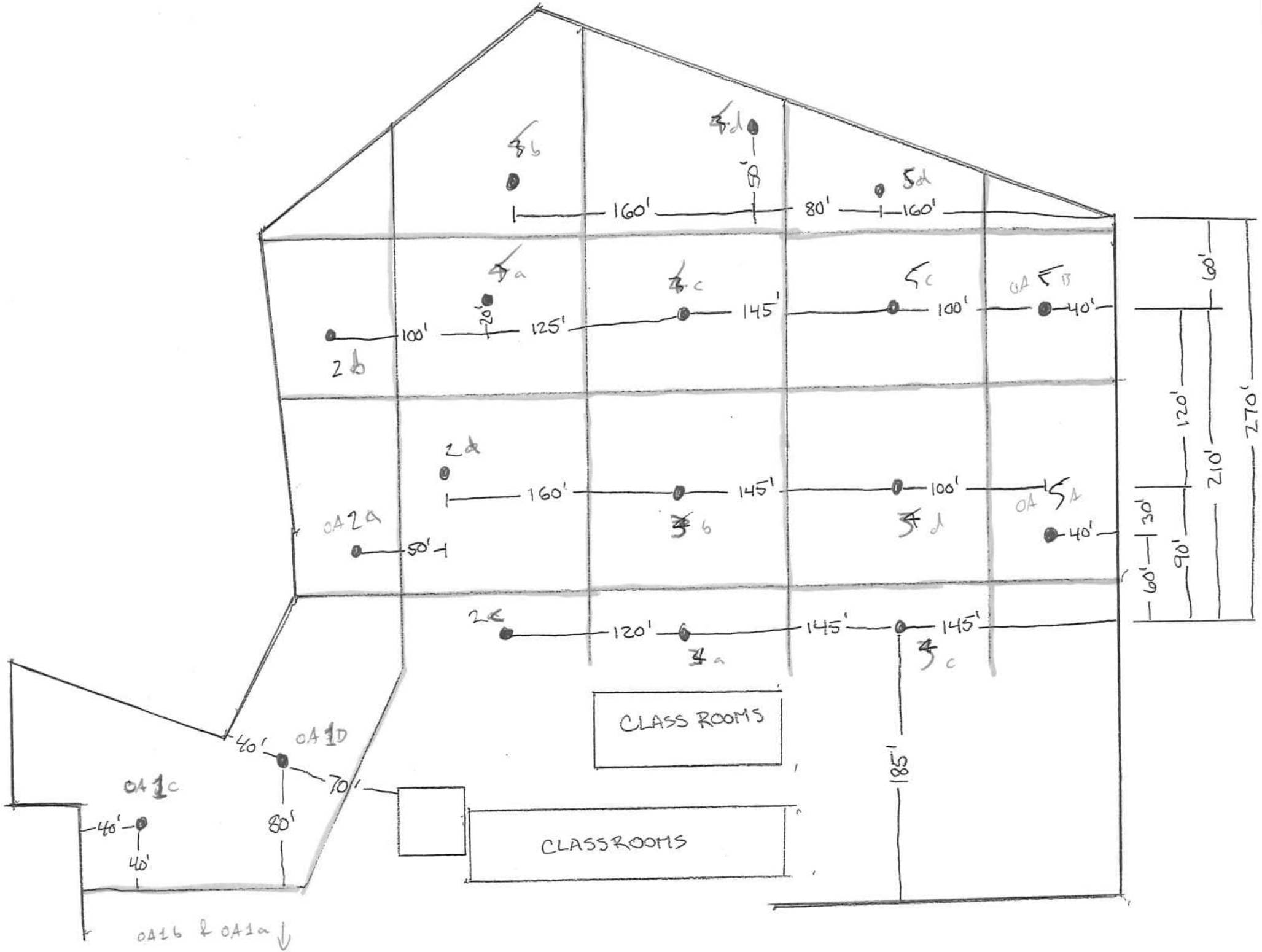
FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: 3-15-23	Page 2 of 3
ATC Representative(s): JK, AE	Project: KJMS soil	
Role:Technician	Location: Kent Ave, Sacramento	
Contact Information:	Project No:	Task No: 06054
Scope of Work: ___ Monitoring ___ Assessment ___ Remediation ___ Closure	Weather: cloudy, windy	Temperature:
	Contractor: —	

Time:	Comments:
0910	onsite ; AE signed in , tailgate/scope
~1100	called & composite OP2 & AR2 from Northwest
	OA 2A PID 0.0 OA 2C → AR 2 @ 1030 } OP2 1035
	OA 2B PID 0.0 OA 2D PID 0.0 (Lots) } OP2 1035
	courier called
~1200	called & composite OP3 & AR3 from north central grass
	OA 3A PID 0.0 OA 3C PID 0.0 AR3 from OA 3B @ 1140
	OA 3B PID 0.0 OA 3D PID 0.0 OP3 composite @ 1155
	courier pick up
~1330	called & composite OP4 & AR4 from North grass
	OA 4A PID 0.0 OA 4C PID 0.0 AR 4 Com 4B @ 1301
	OA 4B PID 0.0 → AR4 OA 4D PID 0.0 OP4 composite @ 1319
	Duplicates for OP & AR pulled from OA 4 group
~1415	called & composite OP5 & AR5 from northeastern grass
	OA 5A PID 0.0 OA 5C PID 0.0 AR 5 from 5B @ 1358
	OA 5B PID 0.0 → AR5 OA 5D PID 0.0 OP5 composite @ 1405
	[redacted]
1530-1600	clean up, sign off, depart ; meet AE offsite to hand off supplies & samples and next day plan change

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

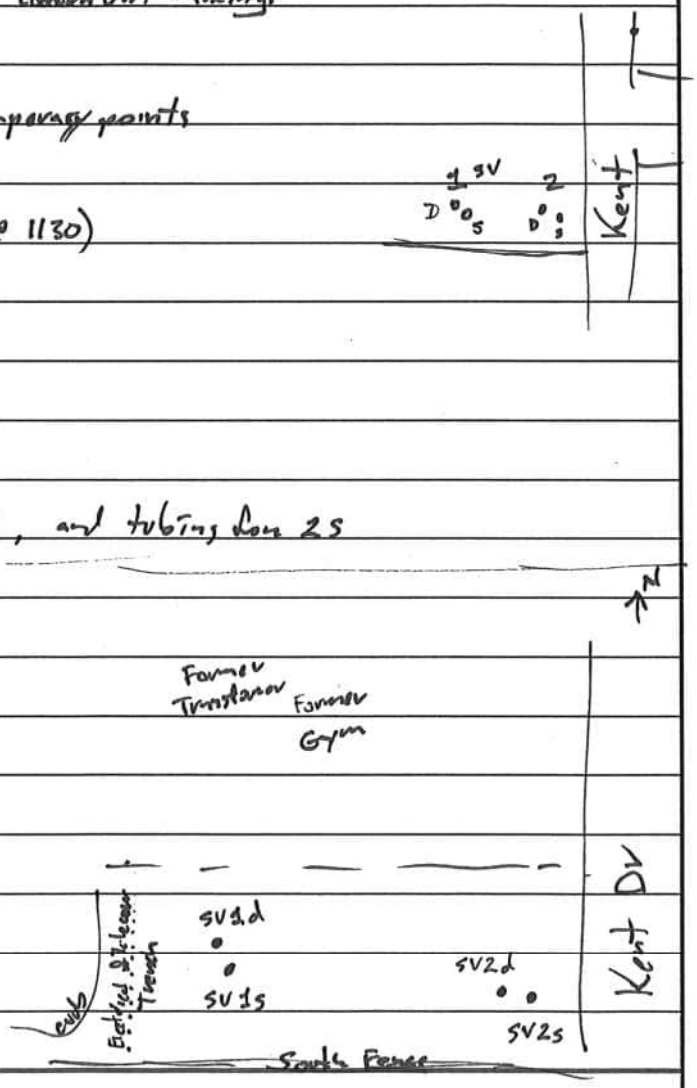

160'
80'
160'
100'
125'
145'
100'
40'
160'
145'
100'
40'
120'
145'
145'
50'
40'
70'
80'
40'
40'
185'
CLASS ROOMS
CLASSROOMS
60'
120'
210'
270'
30'
90'
60'
OA 2a
OA 1b & OA 1a

Field Report

FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: 3-17-23	Page 3 of 3
ATC Representative(s): JK	Project: KJMS	
Role: ~~Technician~~ Geologist	Location: Kent Dr. Sacramento	
Contact Information:	Project No:	Task No: 06054
Scope of Work: ___ Monitoring ___ Assessment ___ Remediation ___ Closure	Weather: clear	Temperature:
	Contractor: TEG	

Time:	Comments:
0820	Atlas onsite ; sign in
0830	TEG onsite ; tailgate, job walk ; confirm USA markings
0910	set up on SV-2d (Centam set)
-0949	complete installation of all three temporary points
~1000	sample SV-2S (installed 3-14-23 @ 1130)
1115	purge & sample SV-2D
1120	purge & sample SV-1S & SV-1D
1145	remove sampling rods from 1S, 1d, 2d, and tubing from 2S grout all points, clean up
1210	TEG offsite check out w/ construction office
1215	Atlas offsite



Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

4

TEG / Strataprobe Field Log

Client: Atlas

Page 1 of 1

Location: 2641 Kent Dr., Sac., CA

Date: 3-17-23

Client ID#: Z0540000356

Project Manager: J. Hamsey

Start Time: 830

TEG #: 303175-5

TEG Operator: CVS

Finish Time: 1202

	Point ID	Matrix	Time Placed	Time Sampled	Target Depth	Actual Depth	Field Notes
1			830				On site site walk
2			850				175 m
3	SV-2D	V	915		10	10	
4	SV-1D	V	925		10	10	
5	SV-1S	V	935		5	5	
6							
7			start	stop	start	stop	can * man *
8	SV-2S	V	959	1002	-26	-5	~~238~~ 234 177
9	SV-2D	V	1115	1117	-27	-5	141 042
10	SV-1D	V	1125	1127	-27	-5	047 277
11	SV-1S	V	1135	1138	-28	-5	990 338
12							
13							
14							
15							
16							
17							SV-2S - ~~30~~ 2229 cc purge
18							SV-1S - ~~30~~ 15 cc purge
19							SV-1D - ~~45~~ 30 cc purge
20							SV-2D - 30 cc purge
21							
22							

Site Notes: Temp. SV. probes. 1 in. rod. PIRT method. 1IDFA leak check. 3 purge volumes of tubing w/ syringe.

SV-2S installed by Atlas on 3/14/23. 2229 cc. 3 purge volumes

Accepted by: _____ Name: Jim Kundert

Screens Used: _____

Risers Used: _____

Safety Meeting Held by: signature: _____ signature: _____

Comments/Topics: Heavy equipment traffic

APPENDIX C

Soil - Laboratory Analytical Reports and Chain-of-Custody Documentation

Date of Report: 03/28/2023

Jeanne Homsey

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Client Project:	[none]
BCL Project:	KJMS
BCL Work Order:	2305190
Invoice ID:	B471915, B472410

Enclosed are the results of analyses for samples received by the laboratory on 3/14/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001408224

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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Sample Information

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Sample Results

2305190-01 - KJMS-1
PCB Analysis (EPA Method 8082) 13
Total Concentrations (TTLC) 14

2305190-02 - KJMS-2
PCB Analysis (EPA Method 8082) 15
Total Concentrations (TTLC) 16

2305190-03 - KJMS-3
PCB Analysis (EPA Method 8082) 17
Total Concentrations (TTLC) 18

2305190-04 - KJMS-4
PCB Analysis (EPA Method 8082) 19
Total Concentrations (TTLC) 20

2305190-05 - KJMS-5
PCB Analysis (EPA Method 8082) 21
Total Concentrations (TTLC) 22

2305190-06 - KJMS-6
PCB Analysis (EPA Method 8082) 23
Total Concentrations (TTLC) 24

2305190-07 - KJMS-7
PCB Analysis (EPA Method 8082) 25
Total Concentrations (TTLC) 26

2305190-08 - KJMS-8
PCB Analysis (EPA Method 8082) 27
Total Concentrations (TTLC) 28

2305190-09 - KJMS-9
PCB Analysis (EPA Method 8082) 29
Total Concentrations (TTLC) 30

2305190-10 - KJMS-10
PCB Analysis (EPA Method 8082) 31
Total Concentrations (TTLC) 32

2305190-11 - KJMS-11
PCB Analysis (EPA Method 8082) 33
Total Concentrations (TTLC) 34

2305190-12 - KJMS-12
PCB Analysis (EPA Method 8082) 35
Total Concentrations (TTLC) 36

2305190-13 - KJMS-13
PCB Analysis (EPA Method 8082) 37
Total Concentrations (TTLC) 38

2305190-14 - KJMS-14
PCB Analysis (EPA Method 8082) 39
Total Concentrations (TTLC) 40

2305190-15 - KJMS-15
PCB Analysis (EPA Method 8082) 41
Total Concentrations (TTLC) 42

2305190-16 - KJMS-DUP #1
PCB Analysis (EPA Method 8082) 43
Total Concentrations (TTLC) 44

Quality Control Reports

PCB Analysis (EPA Method 8082)

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here
MTJL Log-In Number: 2305190

ALL BOLD OUTLINED AREAS a

Company: Atlas Technical
Address: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
Report To: JEANNE HOMSEY
Copy To: jeanne.homsey@oneatlas.com

Billing Information: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
email To: jeanne.homsey@oneatlas.com
Site Collection Info/Address: 2641 Kent Drive, Sacramento, CA 95821

Customer Project Name/Number: KJMS
State: CA County/City: Sacramento Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: (209)579-2221
Email:
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Alex Flores/Jim Kundert
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:
Collected By (signature):
Turnaround Date Required:
Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:
Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day [X] standard
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager: 2

Analyses: PCB's (8082); Lead (6010B)

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments: 23-05190

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	PCB's (8082)	Lead (6010B)	Lab Profile/Line
KJMS- 1	S	X			03/23/23	1100		1	G	X	X	-1
KJMS- 2	S	X				1110		1	G			-2
KJMS- 3	S	X				1120		1	G			-3
KJMS- 4	S	X				1130		1	G			-4
KJMS- 5	S	X				1200		1	G			-5
KJMS- 6	S	X				1210		1	G			-6
KJMS- 7	S	X				1220		1	G			-7
KJMS- 8	S	X				1230		1	G			-8
KJMS- 9	S	X				1240		1	G			-9
KJMS- 10	S	X				1250		1	G			-10

CHK BY: XD
DISTRIBUTION: ORIGINAL [ ] SUB-OUT [ ]

Customer Remarks / Special Conditions / Possible Hazards:
See attachment for detection limit requirements
20% Matrix Spike/Matrix spike duplicates (MD/MS)

Type of Ice Used: (Wet) Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Flores / Atlas	031423/1405		3-14-23 14:05
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
PN	3/14/23 1433	Pace	3-15-23 0947
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Page: ____ of: ____

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CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Atlas Technical	Billing Information: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
Address: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351	
Report To: JEANNE HOMSEY	email To: jeanne.homsey@oneatlas.com
Copy To: Jeanne.homsey@oneatlas.com	Site Collection Info/Address: 2641 Kent Drive, Sacramento, CA 95821
Customer Project Name/Number: KJMS	State: CA County/City: Sacramento Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: (209) 579-2221 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Alex Flores/Jim Kundert	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Analyses: PCB's (8082)	Analyses: Lead (6010B)	Lab Sample # / Comments
KJMS- 11	S	X			031323	1430		1		X	X	23-05190 -11
KJMS- 12	S	↓			↓	1440		1		↓	↓	-12
KJMS- 13	S					1450		1				-13
KJMS- 14	S					1500		1				-14
KJMS- 15	S					1515		1				-15
KJMS- DUP#1	S	↓			↓	—				↓	↓	-16
KJMS-	S											
KJMS-	S											
KJMS-	S											
KJMS-	S											

Lab Profile/Line:

Lab Sample Receipt Checklist:			
Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

See attachment for detection limit requirements

20% Matrix spike/Matrix spike duplicate (MS/MSD)

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Flores/Atlas	031423/1405	PACE	3-14-23 14:05
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
PN	3/14/23 1453	Pace	3-15-23 0947
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: of:

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23-05190

Table 2. Analytical Methods and Detection Limits for Selected OCPs

Pesticide	Methods[2]	CAS No.[3]	DL[4] mg/kg
Aldrin	8081A	309-00-2	0.005
a-BHC	8081A	319-84-6	0.005
b-BHC	8081A	319-85-7	0.005
g-BHC (Lindane)	8081A	58-89-9	0.005
d-BHC	8081A	319-86-8	0.005
Total Chlordane[1]	8081A	57-74-9	0.05
DBCP[5]	8081A	96-12-8	0.01
DDD	8081A	72-54-8	0.05
DDE	8081A	72-55-9	0.05
DDT	8081A	50-29-3	0.05
Dieldrin	8081A	60-57-1	0.005
Endosulfan I	8081A	959-98-8	0.005
Endosulfan II	8081A	33213-65-9	0.005
Endosulfan sulfate	8081A	1031-07-8	0.005
Endrin	8081A	72-20-8	0.05
Endrin aldehyde	8081A	7421-93-4	0.05
Endrin ketone	8081A	53494-70-5	0.05
Heptachlor	8081A	76-44-8	0.05
Heptachlor epoxide	8081A	1024-57-3	0.005
Hexachlorobenzene (HCB)	8081A	118-74-1	0.3
Hexachlorocyclopentadiene	8081A	77-47-4	0.5
Methoxychlor	8081A	72-43-5	0.005
Toxaphene	8081A	8001-35-2	0.05

Notes:

1 = Report total Chlordane (based on a Technical Chlordane standard)
2 = Although other methods may be used to quantify OPCs, DTSC recommends the use of 8081A as the primary method of quantitation
3 = Chemical Abstract Service registry number
4 = Detection Limit recommended for risk assessment purposes
5 = If sampling for this compound is indicated, inclusion in the method must be requested in the workplan and/or QAPP

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23-05190

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-SACR-0030 CA Regulated Soil Notification
	Effective Date: 11/18/2022

USDA / APHIS regulates material with organic matter, including soil, from specific counties that have invasive species, pests, or plant diseases present in the county. In order to process your project, we need to determine if special handling applies to your project.

Any soils received without this completed form cannot be received or processed until the site address is confirmed.

Receipt of Soils from California:

Are samples soil or other regulated material?

☒ Yes ☐ No If no, matrix description: _____

County

☐ Alameda ☐ Contra Costa ☐ Del Norte ☐ Humboldt ☐ Lake ☐ Los Angeles [1]
☐ Marin ☐ Mendocino ☐ Monterey ☐ Napa ☐ Orange [1, 2] ☐ Riverside [1]
☐ San Diego [2] ☐ San Francisco ☐ San Mateo ☐ Santa Clara ☐ Santa Cruz
☐ Solano ☐ Sonoma ☐ Trinity

Other (specify): _____

(If soils are from one of the counties specified above, the site address is required.)

Site Address: 2641 Kent Drive Sacramento, CA

Fire Ant [1] and Fruit Fly [2] quarantines may be partial county quarantines. The site address must be checked against APHIS interactive maps to determine if the site is within the quarantine area.

To be completed by Pace National:

Client: Atlas Technical

Lab ID (if applicable): _____

Are Samples Regulated? ☒ No ☐ Yes

Regulated for? ☐ Phytophthora Ramorum ☐ Fire Ants ☐ Fruit Flies*

Amount of soil received: ~_____ grams. Received on: _____

Will any analysis be done at another lab? ☐ Yes ☐ No

If yes, complete the following for each lab that will receive the regulated samples:

Receiving Lab	Amount Shipped	Shipment sent with the receiving lab's Soil Permit / Compliance Agreement.
	~ g	☐ Yes _____ (initial / date)
	~ g	☐ Yes _____ (initial / date)
	~ g	☐ Yes _____ (initial / date)
	~ g	☐ Yes _____ (initial / date)

* Soils cannot be transferred to another destination without either a PPQ 530 or PPQ 540 form. Contact APHIS before proceeding.

Qualtrax ID: 71192

Page 1 of 1

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of 2

Submission #: 23-05190

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☒ NO ☐
Pace Lab Field Service ☐ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☒ Intact? Yes ☒ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: Clear glass Thermometer ID: 337 Date/Time 3-15-23

Temperature: (A) 3.9 °C / (C) 3.6 °C Analyst Init: SMH 0947

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: MAJ Date/Time: 3/15/23 1025

A = Actual / C = Corrected

Rev 23 05/20/22

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PACE ANALYTICAL — COOLER RECEIPT FORM — Page 2 Of 2

Submission #: 23-05190

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☒ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☒ Intact? Yes ☒ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: Used glass Thermometer ID: 337 Date/Time 3-15-23

Temperature: (A) 3.9 °C / (C) 3.6 °C Analyst Init SMH 0947

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	11	12	13	14	15	16	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
(8oz) / 16oz / 32oz JAR	A	A	A	A	A	A				
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: MAJ Date/Time: 3/15/23 1025
A = Actual / C = Corrected

Rev 23 05/20/22

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305190-01	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 11:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-1	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-02	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 11:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-2	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Water
2305190-03	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 11:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-3	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-04	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-4	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-05	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-5	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-06	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 12:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-6	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-07	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 12:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-7	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305190-08	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-8	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-09	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-9	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-10	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-10	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-11	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-11	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-12	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 14:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-12	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-13	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 14:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-13	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-14	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 15:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-14	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305190-15	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 15:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-15	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305190-16	**COC Number:**	---	**Receive Date:**	03/14/2023 09:47
	Project Number:	---	**Sampling Date:**	03/13/2023 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-DUP #1	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil

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Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-01 | **Client Sample Name:** KJMS-1, 3/13/2023 11:00:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	**0.014**	**mg/kg**	**0.010**	**0.0018**	**EPA-8082**	ND		1
Total PCB's (Summation)	**0.014**	**mg/kg**	**0.010**	**0.0050**	**EPA-8082**	ND		1
Decachlorobiphenyl (Surrogate)	16.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 15:48	HKS	GC-14	1.014	B162415	EPA 3550B

DCN = Data Continuation Number

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1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID:	2305190-01	**Client Sample Name:**	KJMS-1, 3/13/2023 11:00:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**4.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:26	JCC	PE-OP4	0.943	B162103	EPA 3050B

DCN = Data Continuation Number

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Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-02 | **Client Sample Name:** KJMS-2, 3/13/2023 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	21.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 15:59	HKS	GC-14	1.003	B162415	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-02 | **Client Sample Name:** KJMS-2, 3/13/2023 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**7.1**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:30	JCC	PE-OP4	0.952	B162103	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-03 | **Client Sample Name:** KJMS-3, 3/13/2023 11:20:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	**0.0027**	**mg/kg**	**0.010**	**0.0018**	**EPA-8082**	ND	**J**	1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	18.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 16:11	HKS	GC-14	1.010	B162415	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-03 | **Client Sample Name:** KJMS-3, 3/13/2023 11:20:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**12**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:31	JCC	PE-OP4	0.952	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-04 | **Client Sample Name:** KJMS-4, 3/13/2023 11:30:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	23.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 16:22	HKS	GC-14	0.990	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-04 | **Client Sample Name:** KJMS-4, 3/13/2023 11:30:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**7.5**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:32	JCC	PE-OP4	0.935	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-05 | **Client Sample Name:** KJMS-5, 3/13/2023 12:00:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	33.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 16:34	HKS	GC-14	0.990	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-05 | **Client Sample Name:** KJMS-5, 3/13/2023 12:00:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**5.6**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:34	JCC	PE-OP4	1	B162103	EPA 3050B

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-06 | **Client Sample Name:** KJMS-6, 3/13/2023 12:10:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	**0.0023**	**mg/kg**	**0.010**	**0.0018**	**EPA-8082**	ND	**J**	1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	23.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 16:45	HKS	GC-14	0.987	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-06 | **Client Sample Name:** KJMS-6, 3/13/2023 12:10:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**5.1**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:35	JCC	PE-OP4	0.962	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-07 | **Client Sample Name:** KJMS-7, 3/13/2023 12:20:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	31.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 17:31	HKS	GC-14	1.003	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-07 | **Client Sample Name:** KJMS-7, 3/13/2023 12:20:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**5.3**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:36	JCC	PE-OP4	0.962	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-08 | **Client Sample Name:** KJMS-8, 3/13/2023 12:30:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	11.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 17:42	HKS	GC-14	1.007	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-08 | **Client Sample Name:** KJMS-8, 3/13/2023 12:30:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**3.6**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:37	JCC	PE-OP4	0.926	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-09 | **Client Sample Name:** KJMS-9, 3/13/2023 12:40:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	51.7	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 17:53	HKS	GC-14	0.997	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-09 | **Client Sample Name:** KJMS-9, 3/13/2023 12:40:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**27**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:39	JCC	PE-OP4	1	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-10 | **Client Sample Name:** KJMS-10, 3/13/2023 12:50:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	21.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 18:05	HKS	GC-14	1.017	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-10 | **Client Sample Name:** KJMS-10, 3/13/2023 12:50:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**9.4**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:43	JCC	PE-OP4	0.980	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-11 | **Client Sample Name:** KJMS-11, 3/13/2023 2:30:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	**0.0086**	**mg/kg**	**0.010**	**0.0018**	**EPA-8082**	ND	**J**	1
Total PCB's (Summation)	**0.0086**	**mg/kg**	**0.010**	**0.0050**	**EPA-8082**	ND	**J**	1
Decachlorobiphenyl (Surrogate)	26.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 18:16	HKS	GC-14	0.987	B162415	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-11 | **Client Sample Name:** KJMS-11, 3/13/2023 2:30:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**4.1**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:18	JCC	PE-OP4	1	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-12 | **Client Sample Name:** KJMS-12, 3/13/2023 2:40:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	30.0	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 18:28	HKS	GC-14	1.010	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-12 | **Client Sample Name:** KJMS-12, 3/13/2023 2:40:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**16**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:44	JCC	PE-OP4	0.917	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-13 | **Client Sample Name:** KJMS-13, 3/13/2023 2:50:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	23.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 18:39	HKS	GC-14	0.993	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID:	2305190-13	**Client Sample Name:**	KJMS-13, 3/13/2023 2:50:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**4.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:45	JCC	PE-OP4	0.926	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-14 | **Client Sample Name:** KJMS-14, 3/13/2023 3:00:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	16.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 18:50	HKS	GC-14	1.003	B162415	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-14 | **Client Sample Name:** KJMS-14, 3/13/2023 3:00:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**3.9**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:46	JCC	PE-OP4	0.909	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-15 | **Client Sample Name:** KJMS-15, 3/13/2023 3:15:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	40.0	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 19:02	HKS	GC-14	0.990	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-15 | **Client Sample Name:** KJMS-15, 3/13/2023 3:15:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.2**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:48	JCC	PE-OP4	0.917	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305190-16 | **Client Sample Name:** KJMS-DUP #1, 3/13/2023 12:00:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	**0.0027**	**mg/kg**	**0.010**	**0.0018**	**EPA-8082**	ND	**J**	1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	21.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/17/23 19:05	03/20/23 19:13	HKS	GC-14	1.003	B162415	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305190-16 | **Client Sample Name:** KJMS-DUP #1, 3/13/2023 12:00:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/17/23 07:40	03/20/23 15:49	JCC	PE-OP4	0.935	B162103	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162415							
PCB-1016	B162415-BLK1	ND	mg/kg	0.010	0.0023		1
PCB-1221	B162415-BLK1	ND	mg/kg	0.010	0.0033		1
PCB-1232	B162415-BLK1	ND	mg/kg	0.010	0.0026		1
PCB-1242	B162415-BLK1	ND	mg/kg	0.010	0.0015		1
PCB-1248	B162415-BLK1	ND	mg/kg	0.010	0.0021		1
PCB-1254	B162415-BLK1	ND	mg/kg	0.010	0.0016		1
PCB-1260	B162415-BLK1	ND	mg/kg	0.010	0.0018		1
Total PCB's (Summation)	B162415-BLK1	ND	mg/kg	0.010	0.0050		1
Decachlorobiphenyl (Surrogate)	**B162415-BLK1**	**81.7**	%	**40 - 120 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162415-BLK1	PB	EPA-8082	03/17/23	03/20/23 15:03	HKS	GC-14	1.003

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162415											
PCB-1016	B162415-BS1	LCS	0.080667	0.083333	mg/kg	96.8		60 - 120			1
PCB-1260	B162415-BS1	LCS	0.090333	0.083333	mg/kg	108		60 - 120			1
Decachlorobiphenyl (Surrogate)	B162415-BS1	LCS	0.019667	0.020000	mg/kg	98.3		40 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162415-BS1	LCS	EPA-8082	03/17/23	03/20/23 15:14	HKS	GC-14	1

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162415	Used client sample: Y - Description: KJMS-11, 03/13/2023 14:30											
PCB-1016	MS	**2305190-11**	**ND**	**0.19085**	**0.084746**	**mg/kg**		**225**		**60 - 120**	**Q03**	1
	MSD	**2305190-11**	**ND**	**0.16776**	**0.082237**	**mg/kg**	**12.9**	**204**	**30**	**60 - 120**	**Q03**	2
PCB-1260	MS	**2305190-11**	**0.0085526**	**0.043051**	**0.084746**	**mg/kg**		**40.7**		**60 - 120**	**Q03**	1
	MSD	**2305190-11**	**0.0085526**	**0.035526**	**0.082237**	**mg/kg**	**19.2**	**32.8**	**30**	**60 - 120**	**Q03**	2
Decachlorobiphenyl (Surrogate)	MS	**2305190-11**	**ND**	**0.0081356**	**0.020339**	**mg/kg**		**40.0**		**40 - 120**		1
	MSD	**2305190-11**	**ND**	**0.0046053**	**0.019737**	**mg/kg**	**55.4**	**23.3**		**40 - 120**	**S09**	2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162415-MS1	MS	EPA-8082	03/17/23	03/20/23 15:25	HKS	GC-14	1.017
2	B162415-MSD1	MSD	EPA-8082	03/17/23	03/20/23 15:37	HKS	GC-14	0.987

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162103							
Lead	B162103-BLK1	ND	mg/kg	2.5	0.41		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162103-BLK1	PB	EPA-6010B	03/17/23	03/20/23 15:15	JCC	PE-OP4	1

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Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162103											
Lead	B162103-BS1	LCS	104.68	100.00	mg/kg	105		75 - 125			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162103-BS1	LCS	EPA-6010B	03/17/23	03/20/23 15:16	JCC	PE-OP4	1

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ATLAS - Modesto
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Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162103	Used client sample: Y - Description: KJMS-11, 03/13/2023 14:30											
Lead	DUP	2305190-11	4.1272	4.1792		mg/kg	1.3		20			1
	MS	2305190-11	4.1272	94.730	100.00	mg/kg		90.6		75 - 125		2
	MSD	2305190-11	4.1272	96.877	100.00	mg/kg	2.2	92.7	20	75 - 125		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162103-DUP1	DUP	EPA-6010B	03/17/23	03/20/23 15:19	JCC	PE-OP4	1
2	B162103-MS1	MS	EPA-6010B	03/17/23	03/20/23 15:22	JCC	PE-OP4	1
3	B162103-MSD1	MSD	EPA-6010B	03/17/23	03/20/23 15:23	JCC	PE-OP4	1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 14:18
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S09	The surrogate recovery for this compound was not within the control limits.

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Date of Report: 03/28/2023

Jeanne Homsey

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Client Project:	Z054000356
BCL Project:	KJMS
BCL Work Order:	2305467
Invoice ID:	B472407

Enclosed are the results of analyses for samples received by the laboratory on 3/17/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Page 1 of 2

CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here
MTJL Log-in Number: 23-05467
2305467
ALL BOLD OUTLINED AREAS ar

Company: Atlas Technical
Address: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
Report To: JEANINE HOMSEY

Billing Information: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
email To: jeanine.homsey@oneatlas.com

Copy To:

Site Collection Info/Address: 2641 Kent Drive, Sacramento, CA 95821

Customer Project Name/Number: KJMS, 2054000356
State: CA County/City: Sacramento Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone:
Email:
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Alex Flores/Jim Kundert
Collected By (signature):
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:

Turnaround Date Required:
Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:
Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (5 Standard)
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Type: Plastic (P) or Glass (G)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: PCB's (8082)	Analyses: Lead (6010B)
KJMS- 16	S	Grab			031523	1335		2	X	X
KJMS- 17	S					1400		2	X	X
KJMS- 18	S					1415		2	X	X
KJMS- 19	S					1425		2	X	X
KJMS- 20	S				031623	0945		2	X	X
KJMS- 21	S					1005		2	X	X
KJMS- 22	S					1022		2	X	X
KJMS- 23	S					1040		2	X	X
KJMS- 24	S					1058		2	X	X
KJMS- 25	S					1112		2	X	X

CHK BY DISTRIBUTION SUB-OUT

Customer Remarks / Special Conditions / Possible Hazards:
See attachment for detection limit requirements
Refer to sample plan. 20% MS/MD

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Flores	031623/1220	Michelle Zamm PW	3/16/23 1220
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] PW	3/16/23 1322	[signature] Pace	3.17.23 0930
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 23-05467

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Atlas Technical

Address: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351

Report To: JEANNE HOMSEY

Billing Information: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351

email To: jeanne.homsey@oneatlas.com

Copy To:

Site Collection Info/Address: 2641 Kent Drive, Sacramento, CA 95821

Customer Project Name/Number: KJMS / 20540003

State: CA County/City: Sacramento Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Alex Flores/Jim Kundert

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:

Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day [X] Standard

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Container Preservative Type **

Lab Project Manager: Felicia Johnson

Analyses: PCB's (8082), Lead (6010B)

Container Type: Plastic (P) or Glass (G)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type	PCB's (8082)	Lead (6010B)
KJMS- DUP#2	S	Grab			031523	—		2	8-oz glass	X	X
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

See attachment for detection limit requirements

Refer to Sampling plan 20% MS/MD.

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: oC

Cooler 1 Therm Corr. Factor: oC

Cooler 1 Corrected Temp: oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Flores	031623/1220	Michelle Spencer PN	3/16/23 1220
Jim Kundert PN	3/16/23 1522	Dmorquez Pace	3-17-23 0936

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: of:

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PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of 2

Submission #: 23-05467

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(N) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity 0.97 Container: Clear glass Thermometer ID: 337

Temperature: (A) 5.6 °C / (C) 5.3 °C

Date/Time 3.17.23

Analyst Init SMH 0930

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
(G) / 16oz / 32oz JAR	A,B	A,B	A,B	A,B	A,B	A,B	A,B	A,B	A,B	A,B
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: -11 KSMS-OUP B2 03/15/23 NOTIME

Sample Numbering Completed By: TODD L Date/Time: 3.17.23 17:00

A = Actual / C = Corrected

Rev 23 05/20/22

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 of 2 — 2022

Submission #: 23-05467

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐
(N) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ — Containers ☐ Intact? Yes ☐ No ☐ — None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity 0.97 Container: Clear glass Thermometer ID: 337 Date/Time 3-17-23

Temperature: (A) 5.6 °C / (C) 5.3 °C Analyst Init SMH 0930

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A, C									
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: TODD Date/Time: 3-17-23 1705

A = Actual / C = Corrected

Rev 23 05/20/22

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305467-01	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 13:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-16	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-02	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 14:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-17	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-03	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-18	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-04	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 14:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-19	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-05	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/16/2023 09:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-20	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-06	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/16/2023 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-21	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-07	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/16/2023 10:22
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-22	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305467-08	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/16/2023 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-23	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-09	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/16/2023 10:58
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-24	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-10	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/16/2023 12:02
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-25	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305467-11	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/16/2023 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-Dup#2	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil

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Pace Analytical
ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-01 | **Client Sample Name:** KJMS-16, 3/15/2023 1:35:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	33.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 10:50	HKS	GC-14	0.993	B162884	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-01 | **Client Sample Name:** KJMS-16, 3/15/2023 1:35:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**7.5**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:37	JCC	PE-OP3	0.935	B162251	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-02 | **Client Sample Name:** KJMS-17, 3/15/2023 2:00:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	25.0	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 11:01	HKS	GC-14	1.003	B162884	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-02 | **Client Sample Name:** KJMS-17, 3/15/2023 2:00:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**8.3**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:33	JCC	PE-OP3	0.909	B162251	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-03 | **Client Sample Name:** KJMS-18, 3/15/2023 2:15:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	23.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 11:13	HKS	GC-14	0.984	B162884	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-03 | **Client Sample Name:** KJMS-18, 3/15/2023 2:15:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**19**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:34	JCC	PE-OP3	0.980	B162251	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-04 | **Client Sample Name:** KJMS-19, 3/15/2023 2:25:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	48.3	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 11:24	HKS	GC-14	1.010	B162884	EPA 3550B

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ATLAS - Modesto
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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-04 | **Client Sample Name:** KJMS-19, 3/15/2023 2:25:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**4.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:43	JCC	PE-OP3	1	B162251	EPA 3050B

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ATLAS - Modesto
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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-05 | **Client Sample Name:** KJMS-20, 3/16/2023 9:45:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	53.3	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 11:35	HKS	GC-14	0.984	B162884	EPA 3550B

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ATLAS - Modesto
1117 Lone Palm Avenue
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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-05 | **Client Sample Name:** KJMS-20, 3/16/2023 9:45:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:46	JCC	PE-OP3	1	B162251	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
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Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-06 | **Client Sample Name:** KJMS-21, 3/16/2023 10:05:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	36.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 12:10	HKS	GC-14	1	B162884	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-06 | **Client Sample Name:** KJMS-21, 3/16/2023 10:05:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**7.7**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:47	JCC	PE-OP3	0.909	B162251	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-07 | **Client Sample Name:** KJMS-22, 3/16/2023 10:22:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	25.0	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 12:21	HKS	GC-14	1	B162884	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-07 | **Client Sample Name:** KJMS-22, 3/16/2023 10:22:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**25**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:49	JCC	PE-OP3	1	B162251	EPA 3050B

DCN = Data Continuation Number

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Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-08 | **Client Sample Name:** KJMS-23, 3/16/2023 10:40:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	31.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 12:32	HKS	GC-14	0.997	B162884	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-08 | **Client Sample Name:** KJMS-23, 3/16/2023 10:40:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.6**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:51	JCC	PE-OP3	0.962	B162251	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-09 | **Client Sample Name:** KJMS-24, 3/16/2023 10:58:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	36.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 12:44	HKS	GC-14	0.987	B162884	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
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Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-09 | **Client Sample Name:** KJMS-24, 3/16/2023 10:58:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.2**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:52	JCC	PE-OP3	1	B162251	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
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Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-10 | **Client Sample Name:** KJMS-25, 3/16/2023 12:02:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	30.0	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 10:39	HKS	GC-14	0.987	B162884	EPA 3550B

DCN = Data Continuation Number

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Pace Analytical
ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-10 | **Client Sample Name:** KJMS-25, 3/16/2023 12:02:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:57	JCC	PE-OP3	0.909	B162251	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305467-11 | **Client Sample Name:** KJMS-Dup#2, 3/16/2023 12:00:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	25.0	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 12:55	HKS	GC-14	1	B162884	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305467-11 | **Client Sample Name:** KJMS-Dup#2, 3/16/2023 12:00:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.0**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:58	JCC	PE-OP3	1	B162251	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162884							
PCB-1016	B162884-BLK1	ND	mg/kg	0.010	0.0023		1
PCB-1221	B162884-BLK1	ND	mg/kg	0.010	0.0033		1
PCB-1232	B162884-BLK1	ND	mg/kg	0.010	0.0026		1
PCB-1242	B162884-BLK1	ND	mg/kg	0.010	0.0015		1
PCB-1248	B162884-BLK1	ND	mg/kg	0.010	0.0021		1
PCB-1254	B162884-BLK1	ND	mg/kg	0.010	0.0016		1
PCB-1260	B162884-BLK1	ND	mg/kg	0.010	0.0018		1
Total PCB's (Summation)	B162884-BLK1	ND	mg/kg	0.010	0.0050		1
Decachlorobiphenyl (Surrogate)	**B162884-BLK1**	**88.3**	%	**40 - 120 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162884-BLK1	PB	EPA-8082	03/21/23	03/22/23 09:53	HKS	GC-14	1.010

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162884											
PCB-1016	B162884-BS1	LCS	0.081879	0.083893	mg/kg	97.6		60 - 120			1
PCB-1260	B162884-BS1	LCS	0.083221	0.083893	mg/kg	99.2		60 - 120			1
Decachlorobiphenyl (Surrogate)	B162884-BS1	LCS	0.020134	0.020134	mg/kg	100		40 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162884-BS1	LCS	EPA-8082	03/21/23	03/22/23 10:05	HKS	GC-14	1.007

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162884	Used client sample: Y - Description: KJMS-25, 03/16/2023 12:02											
PCB-1016	MS	**2305467-10**	**ND**	**0.042384**	**0.082781**	**mg/kg**		**51.2**		**60 - 120**	**Q03**	1
	MSD	**2305467-10**	**ND**	**0.066000**	**0.083333**	**mg/kg**	**43.6**	**79.2**	**30**	**60 - 120**	**Q02**	2
PCB-1260	MS	**2305467-10**	**ND**	**0.028477**	**0.082781**	**mg/kg**		**34.4**		**60 - 120**	**Q03**	1
	MSD	**2305467-10**	**ND**	**0.051333**	**0.083333**	**mg/kg**	**57.3**	**61.6**	**30**	**60 - 120**	**Q02**	2
Decachlorobiphenyl (Surrogate)	MS	**2305467-10**	**ND**	**0.0062914**	**0.019868**	**mg/kg**		**31.7**		**40 - 120**	**S09**	1
	MSD	**2305467-10**	**ND**	**0.010000**	**0.020000**	**mg/kg**	**45.5**	**50.0**		**40 - 120**		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162884-MS1	MS	EPA-8082	03/21/23	03/22/23 10:16	HKS	GC-14	0.993
2	B162884-MSD1	MSD	EPA-8082	03/21/23	03/22/23 10:27	HKS	GC-14	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162251							
Lead	B162251-BLK1	ND	mg/kg	2.5	0.41		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-BLK1	PB	EPA-6010B	03/20/23	03/21/23 13:14	JCC	PE-OP3	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162251											
Lead	B162251-BS1	LCS	103.23	100.00	mg/kg	103		75 - 125			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-BS1	LCS	EPA-6010B	03/20/23	03/21/23 13:16	JCC	PE-OP3	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162251	Used client sample: N											
Lead	DUP	**2305468-05**	**7.7955**	**6.0500**		**mg/kg**	**25.2**		**20**		**A02**	1
	MS	**2305468-05**	**7.7955**	**105.66**	**100.00**	**mg/kg**		**97.9**		**75 - 125**		2
	MSD	**2305468-05**	**7.7955**	**107.62**	**100.00**	**mg/kg**	**1.8**	**99.8**	**20**	**75 - 125**		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-DUP1	DUP	EPA-6010B	03/20/23	03/21/23 13:18	JCC	PE-OP3	1
2	B162251-MS1	MS	EPA-6010B	03/20/23	03/21/23 13:21	JCC	PE-OP3	1
3	B162251-MSD1	MSD	EPA-6010B	03/20/23	03/21/23 13:23	JCC	PE-OP3	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/28/2023 13:50
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S09	The surrogate recovery for this compound was not within the control limits.

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Date of Report: 03/29/2023

Jeanne Homsey

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Client Project:	Z054000356
BCL Project:	KJMS
BCL Work Order:	2305468
Invoice ID:	B472509

Enclosed are the results of analyses for samples received by the laboratory on 3/16/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

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Chain of Custody and Cooler Receipt Form for 2305468 Page 1 of 2

CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or MTJL Log-In Number Here

2305468

ALL BOLD OUTLINED AREAS are

Company: Atlas Technical
Billing Information:
Address: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
Report To: JEANNE HOMSEY
email To: jeanne.homsey@oneatlas.com
Copy To:
Site Collection Info/Address: 2641 Kent Drive, Sacramento, CA 95821
Customer Project Name/Number: KJMS/ 20540003356
State: CA County/City: Sacramento Time Zone Collected: [X] PT [ ] MT [ ] CT [ ] ET
Phone:
Email:
Collected By (print): Alex Flores/Jim Kundert
Collected By (signature):
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:
Site/Facility ID #:
Purchase Order #:
Quote #:
Turnaround Date Required:
Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day CXT Standard
Compliance Monitoring? [ ] Yes [ ] No
DW PWS ID #:
DW Location Code:
Immediately Packed on Ice: [X] Yes [ ] No
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Container Preservative Type **: U U
Lab Project Manager: Felicia Johnson

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: PCB's (8082) Lead (6010B)

Lab Profile/Line:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (W/P), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	PCB's (8082)	Lead (6010B)
KJMS- 26	S	Grab	1225		031623	1225		2	8oz G/AG	X	X
KJMS- 27	S		1248			1248		2		X	X
KJMS- 28	S		1300			1300		2		X	X
KJMS- 29	S		1330			1330		2		X	X
KJMS- Dup #3	S		—			—		2		X	X
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										
KJMS-	S										

CHK BY DISTRIBUTION
SUB-OUT

Customer Remarks / Special Conditions / Possible Hazards:
See attachment for detection limit requirements
Refer to Sample plan 2640 MS/MSD

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ____
Sample pH Acceptable Y N NA
pH Strips: ____
Sulfide Present Y N NA
Lead Acetate Strips: ____
LAB USE ONLY:
Lab Sample # / Comments:

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____
Cooler 1 Temp Upon Receipt: ___oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: ___oC
Comments:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Page: ____ of: ____

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Alex Flores	031623/1310	Jesse B	3.16.23 1710
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	3.16.23 2200	TSD	3.16.23 2245
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Chain of Custody and Cooler Receipt Form for 2305468 Page 2 of 2

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of 1

Submission #: 23-05468

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☐ Hand Delivery ☐
Pace Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☑ NO ☐
W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: N/A Thermometer ID: 230

Temperature: (A) 1.3 °C / (C) 1.1 °C

Date/Time 3-16-23

Analyst Init SJL 320

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A,B	A,B	A,B	A,B	A,B					
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: TAD G Date/Time: 3-17-23 1208

A = Actual / C = Corrected

Rev 23 05/20/22

[S:\WPDocs\Word\Perlsct\LAB_DOCS\FORMS\SAMREC rev 23]

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305468-01	**COC Number:**	---	**Receive Date:**	03/16/2023 22:00
	Project Number:	---	**Sampling Date:**	03/16/2023 12:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-26	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305468-02	**COC Number:**	---	**Receive Date:**	03/16/2023 22:00
	Project Number:	---	**Sampling Date:**	03/16/2023 12:48
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-27	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305468-03	**COC Number:**	---	**Receive Date:**	03/16/2023 22:00
	Project Number:	---	**Sampling Date:**	03/16/2023 13:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-28	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305468-04	**COC Number:**	---	**Receive Date:**	03/16/2023 22:00
	Project Number:	---	**Sampling Date:**	03/16/2023 13:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-29	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil
2305468-05	**COC Number:**	---	**Receive Date:**	03/16/2023 22:00
	Project Number:	---	**Sampling Date:**	03/16/2023 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-Dup#3	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores/Jim Kundert	**Sample Type:**	Soil

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305468-01 | **Client Sample Name:** KJMS-26, 3/16/2023 12:25:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	23.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 13:06	HKS	GC-14	1.017	B162884	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305468-01 | **Client Sample Name:** KJMS-26, 3/16/2023 12:25:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**7.0**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 14:00	JCC	PE-OP3	0.990	B162251	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305468-02 | **Client Sample Name:** KJMS-27, 3/16/2023 12:48:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	38.3	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 13:18	HKS	GC-14	1	B162884	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305468-02 | **Client Sample Name:** KJMS-27, 3/16/2023 12:48:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**7.4**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 14:01	JCC	PE-OP3	0.980	B162251	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305468-03 | **Client Sample Name:** KJMS-28, 3/16/2023 1:00:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	56.7	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 13:29	HKS	GC-14	0.990	B162884	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305468-03 | **Client Sample Name:** KJMS-28, 3/16/2023 1:00:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**4.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 14:02	JCC	PE-OP3	0.909	B162251	EPA 3050B

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305468-04 | **Client Sample Name:** KJMS-29, 3/16/2023 1:30:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	31.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 13:41	HKS	GC-14	0.997	B162884	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305468-04 | **Client Sample Name:** KJMS-29, 3/16/2023 1:30:00PM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**6.7**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 14:05	JCC	PE-OP3	1	B162251	EPA 3050B

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305468-05 | **Client Sample Name:** KJMS-Dup#3, 3/16/2023 12:00:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	40.0	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 17:15	03/22/23 13:52	HKS	GC-14	1.007	B162884	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305468-05 | **Client Sample Name:** KJMS-Dup#3, 3/16/2023 12:00:00AM, Alex Flores/Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Lead	**7.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:17	JCC	PE-OP3	1	B162251	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162884							
PCB-1016	B162884-BLK1	ND	mg/kg	0.010	0.0023		1
PCB-1221	B162884-BLK1	ND	mg/kg	0.010	0.0033		1
PCB-1232	B162884-BLK1	ND	mg/kg	0.010	0.0026		1
PCB-1242	B162884-BLK1	ND	mg/kg	0.010	0.0015		1
PCB-1248	B162884-BLK1	ND	mg/kg	0.010	0.0021		1
PCB-1254	B162884-BLK1	ND	mg/kg	0.010	0.0016		1
PCB-1260	B162884-BLK1	ND	mg/kg	0.010	0.0018		1
Total PCB's (Summation)	B162884-BLK1	ND	mg/kg	0.010	0.0050		1
Decachlorobiphenyl (Surrogate)	**B162884-BLK1**	**88.3**	%	**40 - 120 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162884-BLK1	PB	EPA-8082	03/21/23	03/22/23 09:53	HKS	GC-14	1.010

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162884											
PCB-1016	B162884-BS1	LCS	0.081879	0.083893	mg/kg	97.6		60 - 120			1
PCB-1260	B162884-BS1	LCS	0.083221	0.083893	mg/kg	99.2		60 - 120			1
Decachlorobiphenyl (Surrogate)	B162884-BS1	LCS	0.020134	0.020134	mg/kg	100		40 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162884-BS1	LCS	EPA-8082	03/21/23	03/22/23 10:05	HKS	GC-14	1.007

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162884	Used client sample: N											
PCB-1016	MS	**2305467-10**	**ND**	**0.042384**	**0.082781**	**mg/kg**		**51.2**		**60 - 120**	**Q03**	1
	MSD	**2305467-10**	**ND**	**0.066000**	**0.083333**	**mg/kg**	**43.6**	**79.2**	**30**	**60 - 120**	**Q02**	2
PCB-1260	MS	**2305467-10**	**ND**	**0.028477**	**0.082781**	**mg/kg**		**34.4**		**60 - 120**	**Q03**	1
	MSD	**2305467-10**	**ND**	**0.051333**	**0.083333**	**mg/kg**	**57.3**	**61.6**	**30**	**60 - 120**	**Q02**	2
Decachlorobiphenyl (Surrogate)	MS	**2305467-10**	**ND**	**0.0062914**	**0.019868**	**mg/kg**		**31.7**		**40 - 120**	**S09**	1
	MSD	**2305467-10**	**ND**	**0.010000**	**0.020000**	**mg/kg**	**45.5**	**50.0**		**40 - 120**		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162884-MS1	MS	EPA-8082	03/21/23	03/22/23 10:16	HKS	GC-14	0.993
2	B162884-MSD1	MSD	EPA-8082	03/21/23	03/22/23 10:27	HKS	GC-14	1

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162251							
Lead	B162251-BLK1	ND	mg/kg	2.5	0.41		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-BLK1	PB	EPA-6010B	03/20/23	03/21/23 13:14	JCC	PE-OP3	1

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162251											
Lead	B162251-BS1	LCS	103.23	100.00	mg/kg	103		75 - 125			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-BS1	LCS	EPA-6010B	03/20/23	03/21/23 13:16	JCC	PE-OP3	1

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Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162251	Used client sample: Y - Description: KJMS-Dup#3, 03/16/2023 00:00											
Lead	DUP	**2305468-05**	**7.7955**	**6.0500**		**mg/kg**	**25.2**		**20**		**A02**	1
	MS	**2305468-05**	**7.7955**	**105.66**	**100.00**	**mg/kg**		**97.9**		**75 - 125**		2
	MSD	**2305468-05**	**7.7955**	**107.62**	**100.00**	**mg/kg**	**1.8**	**99.8**	**20**	**75 - 125**		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-DUP1	DUP	EPA-6010B	03/20/23	03/21/23 13:18	JCC	PE-OP3	1
2	B162251-MS1	MS	EPA-6010B	03/20/23	03/21/23 13:21	JCC	PE-OP3	1
3	B162251-MSD1	MSD	EPA-6010B	03/20/23	03/21/23 13:23	JCC	PE-OP3	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/29/2023 13:21
Project: KJMS
Project Number: Z054000356
Project Manager: Jeanne Homsey

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S09	The surrogate recovery for this compound was not within the control limits.

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Date of Report: 03/24/2023

Jeanne Homsey

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Client Project:	[none]
BCL Project:	KJMS
BCL Work Order:	2305261
Invoice ID:	B472218

Enclosed are the results of analyses for samples received by the laboratory on 3/16/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody and Cooler Receipt Form for 2305261 Page 1 of 2

CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or MTJL Log-In Number H

ALL BOLD OUTLINED AREAS are 2305261

Company: Atlas Technical
Billing Information: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
Address: 1117 Lone Palm Ave, Suite 201B Modesto, CA 95351
Report To: JEANNE HOMSEY
email To: jeanne.homsey@oneatlas.com
Copy To: jeanne.homsey@oneatlas.com
Site Collection Info/Address: 2641 Kent Drive, Sacramento, CA 95821
Customer Project Name/Number: KJMS
State: CA County/City: Sacramento Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: (209)579-2221
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No
Email:
Collected By (print): Alex Flores/Jim Kundert
Purchase Order #:
DW PWS ID #:
Quote #:
DW Location Code:
Collected By (signature):
Turnaround Date Required: Standard
Immediately Packed on Ice: (X) Yes [ ] No
Sample Disposal: (X) Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:
Rush: (Expedite Charges Apply) [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager: Felicia Johnson

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:
23-05261

PCB's (8082)

DISTRIBUTION
SUB OUT

CHK BY

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Analyses	
KJMS-T1-6"	S	X			031423	0916			G	X	-1
KJMS-T2-6"	S					1430				X	-2
KJMS-T3-6"	S					1441				X	-3
KJMS-T4-6"	S					1450				X	-4
KJMS-T1-18"	S				031523	0948				X	-5
KJMS-T2-18"	S					1002				X	-6
KJMS-T3-18"	S					1020				X	-7
KJMS-T4-18"	S					1040				X	-8
KJMS-TDup #1	S					—				X	-9
KJMS	S										

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Remarks / Special Conditions / Possible Hazards:

See attachment for detection limit requirements
20ml matrix spike/Matrix Spike Duplicate (MS/MSD)

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature) Alex Flores/ATLAS Date/Time: 031523/1210 Received by/Company: (Signature) Mickelle Brown/PW
Relinquished by/Company: (Signature) Date/Time: 3/15/23/1324 Received by/Company: (Signature) Page Date/Time: 3/16/23 0925
Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Page: of:

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of

Submission #: 23-05261

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☒ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☒ Intact? Yes ☒ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: Clear glass Thermometer ID: 337

Temperature: (A) 1.2 °C / (C) 0.9 °C

Date/Time 3-16-23

Analyst Init SMH 0930

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A,B	A,B	A,B	A,B	A,B	A,B	A,B	A,B	A,B	
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: MRJ Date/Time: 3/16/23 1731

A = Actual / C = Corrected

Rev 23 05/20/22

[S:\WP Docs\WordPerfect\LAB_DOCS\FORMS\GAMREC.rev 23]

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305261-01	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/14/2023 14:16
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 1-6"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305261-02	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/14/2023 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 2-6"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305261-03	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/14/2023 14:42
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 3-6"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305261-04	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/14/2023 14:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 4-6"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305261-05	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 09:48
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 1- 18"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305261-06	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 10:02
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 2- 18"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305261-07	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 3- 18"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305261-08	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T 4- 18"	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil
2305261-09	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS- T DUP #1	**Lab Matrix:**	Solids
	Sampled By:	ALEX FLORES/ JIM KUDERT	**Sample Type:**	Soil

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-01 | **Client Sample Name:** KJMS- T 1-6", 3/14/2023 2:16:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	43.3	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/21/23 22:01	HKS	GC-14	1.017	B162631	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-02 | **Client Sample Name:** KJMS- T 2-6", 3/14/2023 2:30:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	30.0	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/21/23 22:13	HKS	GC-14	1.007	B162631	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-03 | **Client Sample Name:** KJMS- T 3-6", 3/14/2023 2:42:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	31.7	%	40 - 120 (LCL - UCL)		EPA-8082		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/21/23 22:24	HKS	GC-14	0.997	B162631	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-04 | **Client Sample Name:** KJMS- T 4-6", 3/14/2023 2:50:00PM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	41.7	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/21/23 22:35	HKS	GC-14	0.997	B162631	EPA 3550B

DCN = Data Continuation Number

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ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-05 | **Client Sample Name:** KJMS- T 1- 18", 3/15/2023 9:48:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	53.3	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/21/23 22:47	HKS	GC-14	0.987	B162631	EPA 3550B

DCN = Data Continuation Number

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ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-06 | **Client Sample Name:** KJMS- T 2- 18", 3/15/2023 10:02:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	48.3	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/21/23 23:10	HKS	GC-14	0.984	B162631	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-07 | **Client Sample Name:** KJMS- T 3- 18", 3/15/2023 10:20:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	53.3	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/21/23 23:55	HKS	GC-14	0.997	B162631	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-08 | **Client Sample Name:** KJMS- T 4- 18", 3/15/2023 10:40:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	46.7	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/22/23 00:07	HKS	GC-14	0.987	B162631	EPA 3550B

DCN = Data Continuation Number

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Pace Analytical
ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

BCL Sample ID: 2305261-09 | **Client Sample Name:** KJMS- T DUP #1, 3/15/2023 12:00:00AM, ALEX FLORES/ JIM KUDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0023	EPA-8082	ND		1
PCB-1221	ND	mg/kg	0.010	0.0033	EPA-8082	ND		1
PCB-1232	ND	mg/kg	0.010	0.0026	EPA-8082	ND		1
PCB-1242	ND	mg/kg	0.010	0.0015	EPA-8082	ND		1
PCB-1248	ND	mg/kg	0.010	0.0021	EPA-8082	ND		1
PCB-1254	ND	mg/kg	0.010	0.0016	EPA-8082	ND		1
PCB-1260	ND	mg/kg	0.010	0.0018	EPA-8082	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	63.3	%	40 - 120 (LCL - UCL)		EPA-8082			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082	03/21/23 19:10	03/22/23 00:18	HKS	GC-14	0.997	B162631	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162631							
PCB-1016	B162631-BLK1	ND	mg/kg	0.010	0.0023		1
PCB-1221	B162631-BLK1	ND	mg/kg	0.010	0.0033		1
PCB-1232	B162631-BLK1	ND	mg/kg	0.010	0.0026		1
PCB-1242	B162631-BLK1	ND	mg/kg	0.010	0.0015		1
PCB-1248	B162631-BLK1	ND	mg/kg	0.010	0.0021		1
PCB-1254	B162631-BLK1	ND	mg/kg	0.010	0.0016		1
PCB-1260	B162631-BLK1	ND	mg/kg	0.010	0.0018		1
Total PCB's (Summation)	B162631-BLK1	ND	mg/kg	0.010	0.0050		1
Decachlorobiphenyl (Surrogate)	**B162631-BLK1**	**85.0**	%	**40 - 120 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162631-BLK1	PB	EPA-8082	03/21/23	03/21/23 21:16	HKS	GC-14	0.984

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162631											
PCB-1016	B162631-BS1	LCS	0.089967	0.083612	mg/kg	108		60 - 120			1
PCB-1260	B162631-BS1	LCS	0.095318	0.083612	mg/kg	114		60 - 120			1
Decachlorobiphenyl (Surrogate)	B162631-BS1	LCS	0.022074	0.020067	mg/kg	110		40 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162631-BS1	LCS	EPA-8082	03/21/23	03/21/23 21:27	HKS	GC-14	1.003

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Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162631	Used client sample: Y - Description: KJMS- T DUP #1, 03/15/2023 00:00											
PCB-1016	MS	2305261-09	ND	0.062667	0.083333	mg/kg		75.2		60 - 120		1
	MSD	2305261-09	ND	0.054392	0.084459	mg/kg	14.1	64.4	30	60 - 120		2
PCB-1260	MS	**2305261-09**	**ND**	**0.057000**	**0.083333**	**mg/kg**		**68.4**		**60 - 120**		1
	MSD	**2305261-09**	**ND**	**0.041554**	**0.084459**	**mg/kg**	**31.3**	**49.2**	**30**	**60 - 120**	**Q02,Q03**	2
Decachlorobiphenyl (Surrogate)	MS	2305261-09	ND	0.012000	0.020000	mg/kg		60.0		40 - 120		1
	MSD	2305261-09	ND	0.0094595	0.020270	mg/kg	23.7	46.7		40 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162631-MS1	MS	EPA-8082	03/21/23	03/21/23 21:39	HKS	GC-14	1
2	B162631-MSD1	MSD	EPA-8082	03/21/23	03/21/23 21:50	HKS	GC-14	1.014

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 15:38
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S09	The surrogate recovery for this compound was not within the control limits.

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Date of Report: 03/21/2023

Jeanne Homsey

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Client Project:	2054000356
BCL Project:	KJMS
BCL Work Order:	2305470
Invoice ID:	B471832

Enclosed are the results of analyses for samples received by the laboratory on 3/17/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

Volatile Organic Analysis (EPA Method 8260B)

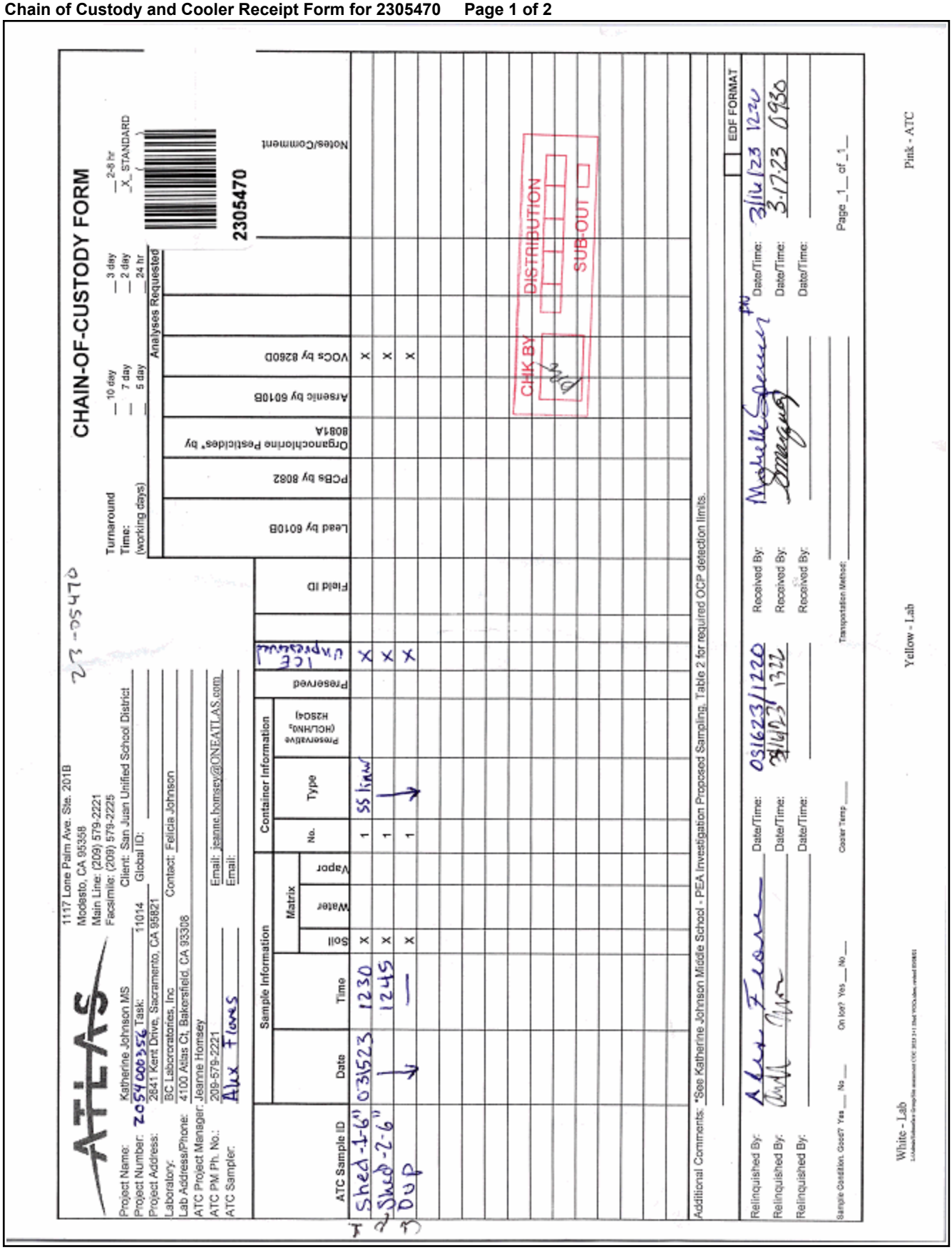
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Chain of Custody and Cooler Receipt Form for 2305470 Page 1 of 2



ATLAS

1117 Lone Palm Ave. Ste. 201B
Modesto, CA 95358
Main Line: (209) 579-2221
Facsimile: (209) 579-2225

CHAIN-OF-CUSTODY FORM

23-05470

2305470

Turnaround Time: (working days) — 10 day — 7 day — 5 day — 3 day — 2 day — 24 hr — 2-8 hr — X STANDARD

Project Name: Katherine Johnson MS Client: San Juan Unified School District
Project Number: 205400356 Task: 11014 Global ID:
Project Address: 2841 Kent Drive, Sacramento, CA 95821
Laboratory: BC Laboratories, Inc Contact: Felicia Johnson
Lab Address/Phone: 4100 Atlas Ct, Bakersfield, CA 93308
ATC Project Manager: Jeanne Homsey
ATC PM Ph. No.: 209-579-2221 Email: jeanne.homsey@ONEATLAS.com
ATC Sampler: Alex Flores Email:

ATC Sample ID	Date	Time	Matrix: Soil	Matrix: Water	Matrix: Vapor	Container Information: No.	Container Information: Type	Container Information: Preservative (HCL/HNO3 H2SO4)	Preserved	Field ID	Lead by 6010B	PCBs by 8082	Organochlorine Pesticides* by 8081A	Arsenic by 6010B	VOCs by 8260D	Notes/Comment
1 Shed-1-6"	031523	1230	X			1	SS liner		ICE						X	
2 Shed-2-6"		1245	X			1									X	
3 Dup		—	X			1									X	

CHK BY DISTRIBUTION SUB-OUT

Additional Comments: *See Katherine Johnson Middle School - PEA Investigation Proposed Sampling, Table 2 for required OCP detection limits.

EDF FORMAT

Relinquished By: Alex Flores	Date/Time: 031623/1200	Received By: Michelle Spencer PM	Date/Time: 3/16/23 1200
Relinquished By:	Date/Time: 3/16/23 1322	Received By:	Date/Time: 3.17.23 0930
Relinquished By:	Date/Time:	Received By:	Date/Time:

Sample Condition Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ___ Transportation Method: ___ Page 1 of 1

White - Lab
Yellow - Lab
Pink - ATC

Chain of Custody and Cooler Receipt Form for 2305470 Page 2 of 2

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of 1

Submission #: 23-05470

SHIPPING INFORMATION: Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐ Pace Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER: Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)

FREE LIQUID: YES ☐ NO ☐ (W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity 0.97 Container: Clear glass Thermometer ID: 337 Date/Time 3.17.23

Temperature: (A) 5.6 °C / (C) 5.3 °C Analyst Init SMH 0930

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE METAL	A	A	A							
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: [illegible] Date/Time: 3.17.23 1700

A = Actual / C = Corrected

Rev 23 05/20/22

[S:\WPDocs\Word Perfect\LAB_DOCS\FORMS\####\COC rev 23]

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305470-01	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Shed-1-6"	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores	**Sample Type:**	Soil
2305470-02	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 12:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Shed-2-6"	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores	**Sample Type:**	Soil
2305470-03	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Dup	**Lab Matrix:**	Solids
	Sampled By:	Alex Flores	**Sample Type:**	Soil

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ATLAS - Modesto
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Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-01 | **Client Sample Name:** Shed-1-6", 3/15/2023 12:30:00PM, Alex Flores

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-01 | **Client Sample Name:** Shed-1-6", 3/15/2023 12:30:00PM, Alex Flores

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.8	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-01 | **Client Sample Name:** Shed-1-6'', 3/15/2023 12:30:00PM, Alex Flores

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	03/17/23 20:09	03/17/23 21:28	EAB	MS-V17	1	B161924	EPA 5030 Soil MS

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-02 | **Client Sample Name:** Shed-2-6", 3/15/2023 12:45:00PM, Alex Flores

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-02 | **Client Sample Name:** Shed-2-6", 3/15/2023 12:45:00PM, Alex Flores

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.4	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-02 | **Client Sample Name:** Shed-2-6", 3/15/2023 12:45:00PM, Alex Flores

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	03/17/23 20:09	03/17/23 21:50	EAB	MS-V17	1	B161924	EPA 5030 Soil MS

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-03 | **Client Sample Name:** Dup, 3/15/2023 12:00:00AM, Alex Flores

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-03 | **Client Sample Name:** Dup, 3/15/2023 12:00:00AM, Alex Flores

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.8	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2305470-03 | **Client Sample Name:** Dup, 3/15/2023 12:00:00AM, Alex Flores

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	03/17/23 20:09	03/17/23 22:12	EAB	MS-V17	1	B161924	EPA 5030 Soil MS

DCN = Data Continuation Number

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161924							
Benzene	B161924-BLK1	ND	mg/kg	0.0050	0.00067		1
Bromobenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00087		1
Bromochloromethane	B161924-BLK1	ND	mg/kg	0.0050	0.00081		1
Bromodichloromethane	B161924-BLK1	ND	mg/kg	0.0050	0.00078		1
Bromoform	B161924-BLK1	ND	mg/kg	0.0050	0.00070		1
Bromomethane	B161924-BLK1	ND	mg/kg	0.0050	0.0017		1
n-Butylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00076		1
sec-Butylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00071		1
tert-Butylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00085		1
Carbon tetrachloride	B161924-BLK1	ND	mg/kg	0.0050	0.00078		1
Chlorobenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00077		1
Chloroethane	B161924-BLK1	ND	mg/kg	0.0050	0.0011		1
Chloroform	B161924-BLK1	ND	mg/kg	0.0050	0.00090		1
Chloromethane	B161924-BLK1	ND	mg/kg	0.0050	0.0011		1
2-Chlorotoluene	B161924-BLK1	ND	mg/kg	0.0050	0.00087		1
4-Chlorotoluene	B161924-BLK1	ND	mg/kg	0.0050	0.00070		1
Dibromochloromethane	B161924-BLK1	ND	mg/kg	0.0050	0.00080		1
1,2-Dibromo-3-chloropropane	B161924-BLK1	ND	mg/kg	0.0050	0.00096		1
1,2-Dibromoethane	B161924-BLK1	ND	mg/kg	0.0050	0.00082		1
Dibromomethane	B161924-BLK1	ND	mg/kg	0.0050	0.0014		1
1,2-Dichlorobenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00079		1
1,3-Dichlorobenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00073		1
1,4-Dichlorobenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00073		1
Dichlorodifluoromethane	B161924-BLK1	ND	mg/kg	0.0050	0.00079		1
1,1-Dichloroethane	B161924-BLK1	ND	mg/kg	0.0050	0.00064		1
1,2-Dichloroethane	B161924-BLK1	ND	mg/kg	0.0050	0.00073		1
1,1-Dichloroethene	B161924-BLK1	ND	mg/kg	0.0050	0.0011		1
cis-1,2-Dichloroethene	B161924-BLK1	ND	mg/kg	0.0050	0.00054		1
trans-1,2-Dichloroethene	B161924-BLK1	ND	mg/kg	0.0050	0.0037		1
1,2-Dichloropropane	B161924-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3-Dichloropropane	B161924-BLK1	ND	mg/kg	0.0050	0.00067		1
2,2-Dichloropropane	B161924-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1-Dichloropropene	B161924-BLK1	ND	mg/kg	0.0050	0.00067		1
cis-1,3-Dichloropropene	B161924-BLK1	ND	mg/kg	0.0050	0.00058		1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B161924							
trans-1,3-Dichloropropene	B161924-BLK1	ND	mg/kg	0.0050	0.00066		1
Ethylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00069		1
Hexachlorobutadiene	B161924-BLK1	ND	mg/kg	0.0050	0.00067		1
Isopropylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00080		1
p-Isopropyltoluene	B161924-BLK1	ND	mg/kg	0.0050	0.00059		1
Methylene chloride	B161924-BLK1	ND	mg/kg	0.010	0.0011		1
Methyl t-butyl ether	B161924-BLK1	ND	mg/kg	0.0050	0.00056		1
Naphthalene	B161924-BLK1	ND	mg/kg	0.0050	0.00099		1
n-Propylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00071		1
Styrene	B161924-BLK1	ND	mg/kg	0.0050	0.00062		1
1,1,1,2-Tetrachloroethane	B161924-BLK1	ND	mg/kg	0.0050	0.00095		1
1,1,2,2-Tetrachloroethane	B161924-BLK1	ND	mg/kg	0.0050	0.00084		1
Tetrachloroethene	B161924-BLK1	ND	mg/kg	0.0050	0.00097		1
Toluene	B161924-BLK1	ND	mg/kg	0.0050	0.00069		1
1,2,3-Trichlorobenzene	B161924-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,4-Trichlorobenzene	B161924-BLK1	ND	mg/kg	0.0050	0.0014		1
1,1,1-Trichloroethane	B161924-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1,2-Trichloroethane	B161924-BLK1	ND	mg/kg	0.0050	0.00094		1
Trichloroethene	B161924-BLK1	ND	mg/kg	0.0050	0.00074		1
Trichlorofluoromethane	B161924-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,3-Trichloropropane	B161924-BLK1	ND	mg/kg	0.0050	0.0019		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B161924-BLK1	ND	mg/kg	0.0050	0.0010		1
1,2,4-Trimethylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3,5-Trimethylbenzene	B161924-BLK1	ND	mg/kg	0.0050	0.00066		1
Vinyl chloride	B161924-BLK1	ND	mg/kg	0.0050	0.00059		1
Total Xylenes	B161924-BLK1	ND	mg/kg	0.010	0.0025		1
p- & m-Xylenes	B161924-BLK1	ND	mg/kg	0.0050	0.0015		1
o-Xylene	B161924-BLK1	ND	mg/kg	0.0050	0.00093		1
1,2-Dichloroethane-d4 (Surrogate)	**B161924-BLK1**	**103**	%	**70 - 121 (LCL - UCL)**			1
Toluene-d8 (Surrogate)	**B161924-BLK1**	**101**	%	**81 - 117 (LCL - UCL)**			1
4-Bromofluorobenzene (Surrogate)	**B161924-BLK1**	**96.4**	%	**74 - 121 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161924-BLK1	PB	EPA-8260B	03/15/23	03/15/23 11:55	EAB	MS-V17	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B161924											
Benzene	B161924-BS1	LCS	0.12721	0.12500	mg/kg	102		70 - 130			1
	B161924-BSD1	LCSD	0.13462	0.12500	mg/kg	108	5.7	70 - 130	20		2
Bromodichloromethane	B161924-BS1	LCS	0.13106	0.12500	mg/kg	105		70 - 130			1
	B161924-BSD1	LCSD	0.14083	0.12500	mg/kg	113	7.2	70 - 130	20		2
Chlorobenzene	B161924-BS1	LCS	0.12810	0.12500	mg/kg	102		70 - 130			1
	B161924-BSD1	LCSD	0.13836	0.12500	mg/kg	111	7.7	70 - 130	20		2
Chloroethane	B161924-BS1	LCS	0.12485	0.12500	mg/kg	99.9		70 - 130			1
	B161924-BSD1	LCSD	0.13222	0.12500	mg/kg	106	5.7	70 - 130	20		2
1,4-Dichlorobenzene	B161924-BS1	LCS	0.13471	0.12500	mg/kg	108		70 - 130			1
	B161924-BSD1	LCSD	0.14536	0.12500	mg/kg	116	7.6	70 - 130	20		2
1,1-Dichloroethane	B161924-BS1	LCS	0.12412	0.12500	mg/kg	99.3		70 - 130			1
	B161924-BSD1	LCSD	0.13105	0.12500	mg/kg	105	5.4	70 - 130	20		2
1,1-Dichloroethene	B161924-BS1	LCS	0.13087	0.12500	mg/kg	105		70 - 130			1
	B161924-BSD1	LCSD	0.13850	0.12500	mg/kg	111	5.7	70 - 130	20		2
Toluene	B161924-BS1	LCS	0.12685	0.12500	mg/kg	101		70 - 130			1
	B161924-BSD1	LCSD	0.13632	0.12500	mg/kg	109	7.2	70 - 130	20		2
Trichloroethene	B161924-BS1	LCS	0.12352	0.12500	mg/kg	98.8		70 - 130			1
	B161924-BSD1	LCSD	0.13394	0.12500	mg/kg	107	8.1	70 - 130	20		2
1,2-Dichloroethane-d4 (Surrogate)	B161924-BS1	LCS	0.051030	0.050000	mg/kg	102		70 - 121			1
	B161924-BSD1	LCSD	0.050220	0.050000	mg/kg	100	1.6	70 - 121			2
Toluene-d8 (Surrogate)	B161924-BS1	LCS	0.050590	0.050000	mg/kg	101		81 - 117			1
	B161924-BSD1	LCSD	0.050590	0.050000	mg/kg	101	0	81 - 117			2
4-Bromofluorobenzene (Surrogate)	B161924-BS1	LCS	0.049750	0.050000	mg/kg	99.5		74 - 121			1
	B161924-BSD1	LCSD	0.049990	0.050000	mg/kg	100	0.5	74 - 121			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161924-BS1	LCS	EPA-8260B	03/15/23	03/15/23 12:17	EAB	MS-V17	1
2	B161924-BSD1	LCSD	EPA-8260B	03/15/23	03/15/23 12:38	EAB	MS-V17	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/21/2023 12:09
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B161924	Used client sample: N											
Benzene	MS	2304386-01	ND	0.12622	0.12500	mg/kg		101		70 - 130		1
	MSD	2304386-01	ND	0.12084	0.12500	mg/kg	4.4	96.7	20	70 - 130		2
Bromodichloromethane	MS	2304386-01	ND	0.12122	0.12500	mg/kg		97.0		70 - 130		1
	MSD	2304386-01	ND	0.11663	0.12500	mg/kg	3.9	93.3	20	70 - 130		2
Chlorobenzene	MS	2304386-01	ND	0.10963	0.12500	mg/kg		87.7		70 - 130		1
	MSD	2304386-01	ND	0.10622	0.12500	mg/kg	3.2	85.0	20	70 - 130		2
Chloroethane	MS	2304386-01	ND	0.13444	0.12500	mg/kg		108		70 - 130		1
	MSD	2304386-01	ND	0.13608	0.12500	mg/kg	1.2	109	20	70 - 130		2
1,4-Dichlorobenzene	MS	**2304386-01**	**ND**	**0.085220**	**0.12500**	**mg/kg**		**68.2**		**70 - 130**	**Q03**	1
	MSD	**2304386-01**	**ND**	**0.079860**	**0.12500**	**mg/kg**	**6.5**	**63.9**	**20**	**70 - 130**	**Q03**	2
1,1-Dichloroethane	MS	2304386-01	ND	0.12325	0.12500	mg/kg		98.6		70 - 130		1
	MSD	2304386-01	ND	0.11877	0.12500	mg/kg	3.7	95.0	20	70 - 130		2
1,1-Dichloroethene	MS	2304386-01	ND	0.13729	0.12500	mg/kg		110		70 - 130		1
	MSD	2304386-01	ND	0.13036	0.12500	mg/kg	5.2	104	20	70 - 130		2
Toluene	MS	2304386-01	0.0019600	0.11959	0.12500	mg/kg		94.1		70 - 130		1
	MSD	2304386-01	0.0019600	0.11544	0.12500	mg/kg	3.5	90.8	20	70 - 130		2
Trichloroethene	MS	2304386-01	ND	0.11944	0.12500	mg/kg		95.6		70 - 130		1
	MSD	2304386-01	ND	0.11479	0.12500	mg/kg	4.0	91.8	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2304386-01	ND	0.050720	0.050000	mg/kg		101		70 - 121		1
	MSD	2304386-01	ND	0.049910	0.050000	mg/kg	1.6	99.8		70 - 121		2
Toluene-d8 (Surrogate)	MS	2304386-01	ND	0.050370	0.050000	mg/kg		101		81 - 117		1
	MSD	2304386-01	ND	0.050280	0.050000	mg/kg	0.2	101		81 - 117		2
4-Bromofluorobenzene (Surrogate)	MS	2304386-01	ND	0.048880	0.050000	mg/kg		97.8		74 - 121		1
	MSD	2304386-01	ND	0.049740	0.050000	mg/kg	1.7	99.5		74 - 121		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B161924-MS1	MS	EPA-8260B	03/15/23	03/15/23 13:00	EAB	MS-V17	1
2	B161924-MSD1	MSD	EPA-8260B	03/15/23	03/15/23 13:22	EAB	MS-V17	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported:	03/21/2023 12:09
Project:	KJMS
Project Number:	2054000356
Project Manager:	Jeanne Homsey

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
Q03	Matrix spike recovery(s) was(were) not within the control limits.

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Date of Report: 03/24/2023

Jeanne Homsey

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Client Project:	[none]
BCL Project:	KJMS
BCL Work Order:	2305262
Invoice ID:	B472230

Enclosed are the results of analyses for samples received by the laboratory on 3/16/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2305262-03 - KJMS-OP3

Organochlorine Pesticides (EPA Method 8081A) 8

2305262-04 - KJMS-AR1

Total Concentrations (TTLC) 9

2305262-05 - KJMS-AR2

Total Concentrations (TTLC) 10

2305262-06 - KJMS-AR3

Total Concentrations (TTLC) 11

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Organochlorine Pesticides (EPA Method 8081A)

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Total Concentrations (TTLC)

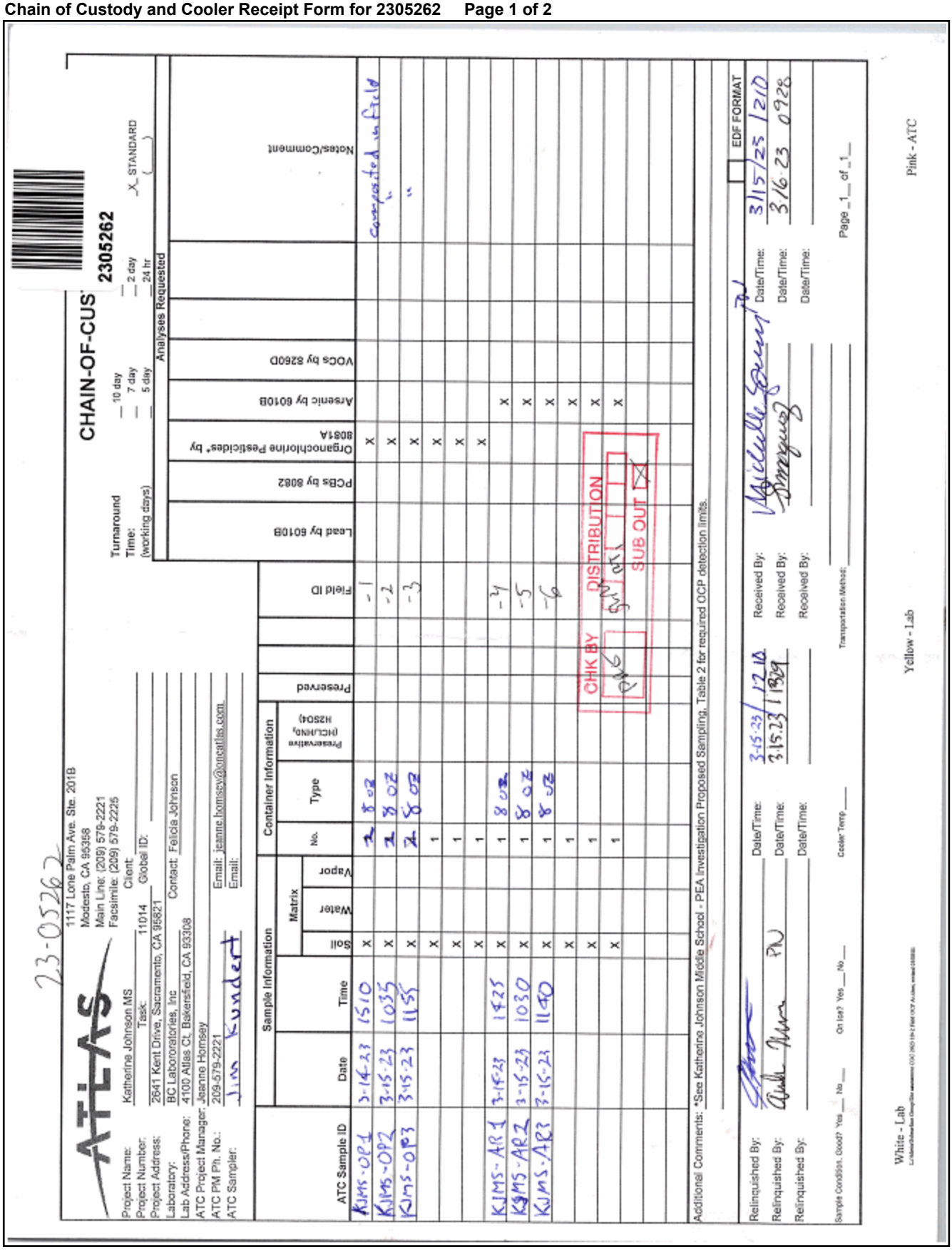
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Chain of Custody and Cooler Receipt Form for 2305262 Page 1 of 2



ATLAS
1117 Lone Palm Ave. Ste. 201B
Modesto, CA 95358
Main Line: (209) 579-2221
Facsimile: (209) 579-2225

CHAIN-OF-CUS 2305262

Project Name: Katherine Johnson MS Client:
Project Number: Task: 11014 Global ID:
Project Address: 2641 Kent Drive, Sacramento, CA 95621
Laboratory: BC Laboratories, Inc Contact: Felicia Johnson
Lab Address/Phone: 4100 Atlas Ct. Bakersfield, CA 93308
ATC Project Manager: Jeanne Homsey
ATC PM Ph. No.: 209-579-2221 Email: jeanne.homsey@oneatlas.com
ATC Sampler: Jim Kundert Email:

Turnaround Time: (working days) — 10 day — 7 day — 5 day — 2 day — 24 hr _X_ STANDARD (___)

ATC Sample ID	Sample Information: Date	Time	Matrix: Soil	Water	Vapor	Container Information: No.	Type	Preservative (HCL,HNO3, H2SO4)	Preserved		Field ID	Analyses Requested: Lead by 6010B	PCBs by 8082	Organochlorine Pesticides* by 8081A	Arsenic by 6010B	VOCs by 8260D			Notes/Comment
KJMS-OP1	3-14-23	1510	X			2	8 oz				-1			X					Composited in Field
KJMS-OP2	3-15-23	1035	X			2	8 oz				-2			X					"
KJMS-OP3	3-15-23	1155	X			2	8 oz				-3			X					"
			X			1								X					
			X			1								X					
			X			1								X					
KJMS-AR1	3-14-23	1425	X			1	8 oz.				-4				X				
KJMS-AR2	3-15-23	1030	X			1	8 oz				-5				X				
KJMS-AR3	3-15-23	1140	X			1	8 oz				-6				X				
			X			1									X				
			X			1									X				
			X			1									X				

CHK BY DISTRIBUTION SUB OUT

Additional Comments: *See Katherine Johnson Middle School - PEA Investigation Proposed Sampling, Table 2 for required OCP detection limits.

EDF FORMAT

Relinquished By:	Date/Time: 3-15-23 12:10	Received By:	Date/Time: 3/15/23 1210
Relinquished By:	Date/Time: 3.15.23 1829	Received By:	Date/Time: 3/16/23 0928
Relinquished By:	Date/Time:	Received By:	Date/Time:

Sample Condition: Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ___ Transportation Method: ___ Page _1_ of _1_

White - Lab Yellow - Lab Pink - ATC

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of

Submission #: 23-05262

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☒ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☒ Intact? Yes ☒ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: Plastic glass Thermometer ID: 337

Temperature: (A) 1.2 °C / (C) 0.9 °C

Date/Time 3-16-23

Analyst Init SMH 0930

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
(8oz) 16oz / 32oz JAR	A/B	A/B	A/B	A	A	A				
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: MH Date/Time: 3/16/23 1732

A = Actual / C = Corrected

Rev 23 05/20/22

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305262-01	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/14/2023 15:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-OP1	**Lab Matrix:**	Solids
	Sampled By:	JIM KUNDERT	**Sample Type:**	Soil
2305262-02	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 10:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-OP2	**Lab Matrix:**	Solids
	Sampled By:	JIM KUNDERT	**Sample Type:**	Soil
2305262-03	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 11:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-OP3	**Lab Matrix:**	Solids
	Sampled By:	JIM KUNDERT	**Sample Type:**	Soil
2305262-04	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/14/2023 14:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-AR1	**Lab Matrix:**	Solids
	Sampled By:	JIM KUNDERT	**Sample Type:**	Soil
2305262-05	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-AR2	**Lab Matrix:**	Solids
	Sampled By:	JIM KUNDERT	**Sample Type:**	Soil
2305262-06	**COC Number:**	---	**Receive Date:**	03/16/2023 09:28
	Project Number:	---	**Sampling Date:**	03/15/2023 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS-AR3	**Lab Matrix:**	Solids
	Sampled By:	JIM KUNDERT	**Sample Type:**	Soil

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Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2305262-01 | **Client Sample Name:** KJMS-OP1, 3/14/2023 3:10:00PM, JIM KUNDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Aldrin	ND	mg/kg	0.0025	0.000090	EPA-8081A	ND	A10	1
alpha-BHC	ND	mg/kg	0.0025	0.00019	EPA-8081A	ND	A10	1
beta-BHC	ND	mg/kg	0.0025	0.00024	EPA-8081A	ND	A10	1
delta-BHC	ND	mg/kg	0.0025	0.00018	EPA-8081A	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025	0.000090	EPA-8081A	ND	A10	1
Chlordane (Technical)	ND	mg/kg	0.25	0.0050	EPA-8081A	ND	A10	1
4,4'-DDD	ND	mg/kg	0.0025	0.00032	EPA-8081A	ND	A10	1
4,4'-DDE	ND	mg/kg	0.0025	0.00048	EPA-8081A	ND	A10	1
4,4'-DDT	ND	mg/kg	0.0025	0.00020	EPA-8081A	ND	A10	1
Dieldrin	ND	mg/kg	0.0025	0.00018	EPA-8081A	ND	A10	1
Endosulfan I	ND	mg/kg	0.0025	0.00010	EPA-8081A	ND	A10	1
Endosulfan II	ND	mg/kg	0.0025	0.00017	EPA-8081A	ND	A10	1
Endosulfan sulfate	ND	mg/kg	0.0025	0.00013	EPA-8081A	ND	A10	1
Endrin	ND	mg/kg	0.0025	0.00032	EPA-8081A	ND	A10	1
Endrin aldehyde	ND	mg/kg	0.0025	0.000090	EPA-8081A	ND	A10	1
Endrin ketone	ND	mg/kg	0.0025	0.00032	EPA-8081A	ND	A10	1
Heptachlor	ND	mg/kg	0.0025	0.00043	EPA-8081A	ND	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025	0.000085	EPA-8081A	ND	A10	1
Hexachlorobenzene	ND	mg/kg	0.010	0.0014	EPA-8081A	ND	A10	1
Hexachlorocyclopentadiene	ND	mg/kg	0.010	0.0016	EPA-8081A	ND	A10	1
Methoxychlor	ND	mg/kg	0.0025	0.00047	EPA-8081A	ND	A10	1
Toxaphene	ND	mg/kg	0.25	0.0070	EPA-8081A	ND	A10	1
TCMX (Surrogate)	40.4	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	63.4	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/20/23 17:15	03/22/23 10:38	HKS	GC-17	4.918	B162635	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2305262-02 | **Client Sample Name:** KJMS-OP2, 3/15/2023 10:35:00AM, JIM KUNDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050	0.000064	EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050	0.000095	EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050	0.000040	EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Endrin ketone	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A	ND		1
Hexachlorobenzene	ND	mg/kg	0.0020	0.00029	EPA-8081A	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.0020	0.00032	EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	ND		1
TCMX (Surrogate)	72.2	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	83.9	%	40 - 130 (LCL - UCL)		EPA-8081A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/20/23 17:15	03/22/23 10:55	HKS	GC-17	0.990	B162635	EPA 3550B

DCN = Data Continuation Number

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Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2305262-03 | **Client Sample Name:** KJMS-OP3, 3/15/2023 11:55:00AM, JIM KUNDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050	0.000064	EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050	0.000095	EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050	0.000040	EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Endrin ketone	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A	ND		1
Hexachlorobenzene	ND	mg/kg	0.0020	0.00029	EPA-8081A	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.0020	0.00032	EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	ND		1
TCMX (Surrogate)	32.2	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	52.3	%	40 - 130 (LCL - UCL)		EPA-8081A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/20/23 17:15	03/22/23 11:12	HKS	GC-17	1	B162635	EPA 3550B

DCN = Data Continuation Number

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Modesto, CA 95351

Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305262-04 | **Client Sample Name:** KJMS-AR1, 3/14/2023 2:25:00PM, JIM KUNDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	**3.6**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:29	JCC	PE-OP3	1	B162251	EPA 3050B

DCN = Data Continuation Number

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Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305262-05 | **Client Sample Name:** KJMS-AR2, 3/15/2023 10:30:00AM, JIM KUNDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	**3.2**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:30	JCC	PE-OP3	0.917	B162251	EPA 3050B

DCN = Data Continuation Number

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Modesto, CA 95351

Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305262-06 | **Client Sample Name:** KJMS-AR3, 3/15/2023 11:40:00AM, JIM KUNDERT

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	**5.0**	**mg/kg**	**2.0**	**0.80**	**EPA-6010B**	ND	**A10**	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/20/23 08:10	03/21/23 13:45	JCC	PE-OP3	1.923	B162251	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
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Modesto, CA 95351

Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162635							
Aldrin	B162635-BLK1	ND	mg/kg	0.00050	0.000018		1
alpha-BHC	B162635-BLK1	ND	mg/kg	0.00050	0.000038		1
beta-BHC	B162635-BLK1	ND	mg/kg	0.00050	0.000048		1
delta-BHC	B162635-BLK1	ND	mg/kg	0.00050	0.000037		1
gamma-BHC (Lindane)	B162635-BLK1	ND	mg/kg	0.00050	0.000018		1
Chlordane (Technical)	B162635-BLK1	ND	mg/kg	0.050	0.0010		1
4,4'-DDD	B162635-BLK1	ND	mg/kg	0.00050	0.000064		1
4,4'-DDE	B162635-BLK1	ND	mg/kg	0.00050	0.000095		1
4,4'-DDT	B162635-BLK1	ND	mg/kg	0.00050	0.000040		1
Dieldrin	B162635-BLK1	ND	mg/kg	0.00050	0.000036		1
Endosulfan I	B162635-BLK1	ND	mg/kg	0.00050	0.000020		1
Endosulfan II	B162635-BLK1	ND	mg/kg	0.00050	0.000034		1
Endosulfan sulfate	B162635-BLK1	ND	mg/kg	0.00050	0.000026		1
Endrin	B162635-BLK1	ND	mg/kg	0.00050	0.000065		1
Endrin aldehyde	B162635-BLK1	ND	mg/kg	0.00050	0.000018		1
Endrin ketone	B162635-BLK1	ND	mg/kg	0.00050	0.000065		1
Heptachlor	B162635-BLK1	ND	mg/kg	0.00050	0.000086		1
Heptachlor epoxide	B162635-BLK1	ND	mg/kg	0.00050	0.000017		1
Hexachlorobenzene	B162635-BLK1	ND	mg/kg	0.0020	0.00029		1
Hexachlorocyclopentadiene	B162635-BLK1	ND	mg/kg	0.0020	0.00032		1
Methoxychlor	B162635-BLK1	ND	mg/kg	0.00050	0.000094		1
Toxaphene	B162635-BLK1	ND	mg/kg	0.050	0.0014		1
TCMX (Surrogate)	**B162635-BLK1**	**83.1**	%	**20 - 130 (LCL - UCL)**			1
Decachlorobiphenyl (Surrogate)	**B162635-BLK1**	**109**	%	**40 - 130 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162635-BLK1	PB	EPA-8081A	03/20/23	03/22/23 09:31	HKS	GC-17	0.984

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Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162635											
Aldrin	B162635-BS1	LCS	0.0050441	0.0050167	mg/kg	101		70 - 130			1
gamma-BHC (Lindane)	B162635-BS1	LCS	0.0051455	0.0050167	mg/kg	103		60 - 140			1
4,4'-DDT	B162635-BS1	LCS	0.0059783	0.0050167	mg/kg	119		60 - 140			1
Dieldrin	B162635-BS1	LCS	0.0052569	0.0050167	mg/kg	105		70 - 130			1
Endrin	B162635-BS1	LCS	0.0052221	0.0050167	mg/kg	104		60 - 140			1
Heptachlor	B162635-BS1	LCS	0.0051548	0.0050167	mg/kg	103		60 - 140			1
TCMX (Surrogate)	B162635-BS1	LCS	0.0082592	0.010033	mg/kg	82.3		20 - 130			1
Decachlorobiphenyl (Surrogate)	B162635-BS1	LCS	0.020613	0.020067	mg/kg	103		40 - 130			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162635-BS1	LCS	EPA-8081A	03/20/23	03/22/23 09:47	HKS	GC-17	1.003

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Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162635	Used client sample: Y - Description: KJMS-OP1, 03/14/2023 15:10											
Aldrin	MS	2305262-01	ND	0.0060659	0.0050676	mg/kg		120		50 - 140		1
	MSD	2305262-01	ND	0.0059023	0.0049669	mg/kg	2.7	119	30	50 - 140		2
gamma-BHC (Lindane)	MS	2305262-01	ND	0.0054257	0.0050676	mg/kg		107		50 - 140		1
	MSD	2305262-01	ND	0.0052781	0.0049669	mg/kg	2.8	106	30	50 - 140		2
4,4'-DDT	MS	2305262-01	ND	0.0065456	0.0050676	mg/kg		129		50 - 140		1
	MSD	2305262-01	ND	0.0059685	0.0049669	mg/kg	9.2	120	30	50 - 140		2
Dieldrin	MS	2305262-01	ND	0.0059645	0.0050676	mg/kg		118		40 - 140		1
	MSD	2305262-01	ND	0.0056407	0.0049669	mg/kg	5.6	114	30	40 - 140		2
Endrin	MS	2305262-01	ND	0.0062264	0.0050676	mg/kg		123		50 - 150		1
	MSD	2305262-01	ND	0.0058825	0.0049669	mg/kg	5.7	118	30	50 - 150		2
Heptachlor	MS	2305262-01	ND	0.0056807	0.0050676	mg/kg		112		60 - 140		1
	MSD	2305262-01	ND	0.0054983	0.0049669	mg/kg	3.3	111	30	60 - 140		2
TCMX (Surrogate)	MS	2305262-01	ND	0.010057	0.010135	mg/kg		99.2		20 - 130		1
	MSD	2305262-01	ND	0.0095877	0.0099338	mg/kg	4.8	96.5		20 - 130		2
Decachlorobiphenyl (Surrogate)	MS	2305262-01	ND	0.023965	0.020270	mg/kg		118		40 - 130		1
	MSD	2305262-01	ND	0.021796	0.019868	mg/kg	9.5	110		40 - 130		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162635-MS1	MS	EPA-8081A	03/20/23	03/22/23 10:04	HKS	GC-17	5.068
2	B162635-MSD1	MSD	EPA-8081A	03/20/23	03/22/23 10:21	HKS	GC-17	4.967

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162251							
Arsenic	B162251-BLK1	ND	mg/kg	1.0	0.40		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-BLK1	PB	EPA-6010B	03/20/23	03/21/23 13:14	JCC	PE-OP3	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162251											
Arsenic	B162251-BS1	LCS	19.468	20.000	mg/kg	97.3		75 - 125			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-BS1	LCS	EPA-6010B	03/20/23	03/21/23 13:16	JCC	PE-OP3	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:15
Project: KJMS
Project Number: [none]
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162251	Used client sample: N											
Arsenic	DUP	2305468-05	2.0113	2.0754		mg/kg	3.1		20			1
	MS	2305468-05	2.0113	20.222	20.000	mg/kg		91.1		75 - 125		2
	MSD	2305468-05	2.0113	20.312	20.000	mg/kg	0.4	91.5	20	75 - 125		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162251-DUP1	DUP	EPA-6010B	03/20/23	03/21/23 13:18	JCC	PE-OP3	1
2	B162251-MS1	MS	EPA-6010B	03/20/23	03/21/23 13:21	JCC	PE-OP3	1
3	B162251-MSD1	MSD	EPA-6010B	03/20/23	03/21/23 13:23	JCC	PE-OP3	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported:	03/24/2023 16:15
Project:	KJMS
Project Number:	[none]
Project Manager:	Jeanne Homsey

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.

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Date of Report: 03/24/2023

Jeanne Homsey

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Client Project:	2054000356
BCL Project:	KJMS
BCL Work Order:	2305469
Invoice ID:	B472231

Enclosed are the results of analyses for samples received by the laboratory on 3/17/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

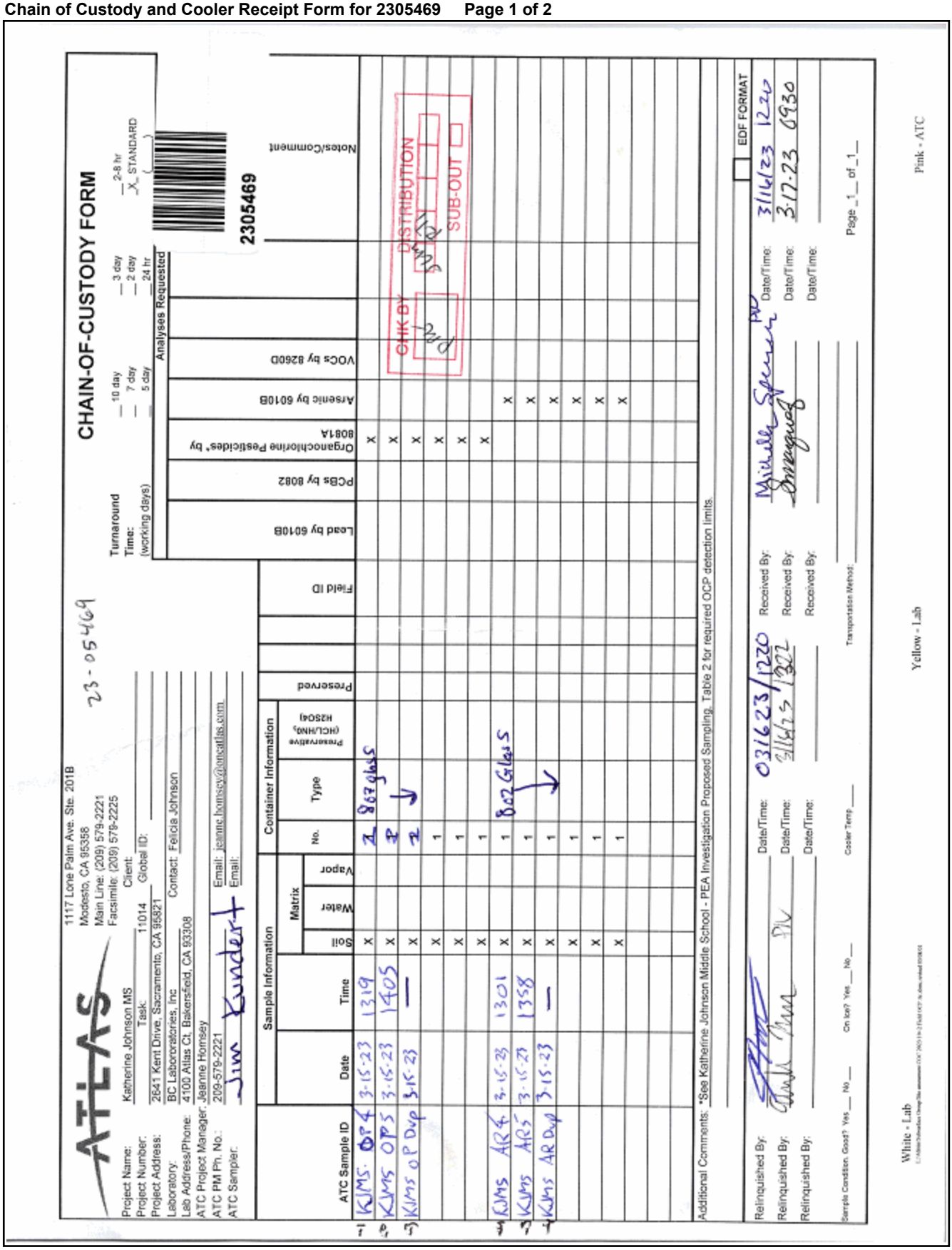
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Chain of Custody and Cooler Receipt Form for 2305469 Page 1 of 2



ATLAS

1117 Lone Palm Ave. Ste. 201B
Modesto, CA 95358
Main Line: (209) 579-2221
Facsimile: (209) 579-2225

23-05469

CHAIN-OF-CUSTODY FORM

Project Name: Katherine Johnson MS Client:
Project Number: Task: 11014 Global ID:
Project Address: 2641 Kent Drive, Sacramento, CA 95821
Laboratory: BC Laboratories, Inc Contact: Felicia Johnson
Lab Address/Phone: 4100 Atlas Ct, Bakersfield, CA 93308
ATC Project Manager: Jeanne Homsey
ATC PM Ph. No.: 209-579-2221 Email: jeanne.homsey@oneatlas.com
ATC Sampler: Jim Kunder + Email:

Turnaround Time: (working days) — 10 day — 7 day — 5 day — 3 day — 2 day — 24 hr — 2-8 hr — X STANDARD ( )

2305469

ATC Sample ID	Date	Time	Sample Information: Soil	Matrix: Water	Matrix: Vapor	Container Information: No.	Container Information: Type	Container Information: Preservative (HCL/HNO3 H2SO4)	Preserved		Field ID	Analyses Requested: Lead by 6010B	PCBs by 8082	Organochlorine Pesticides* by 8081A	Arsenic by 6010B	VOCs by 8260D			Notes/Comment
1 KMS OP4	3.15.23	1319	X			2	8oz glass							X					
2 KMS OP5	3.15.23	1405	X			2	↓							X					
3 KMS OP Dup	3.15.23	—	X			2	↓							X					
			X			1								X					
			X			1								X					
			X			1								X					
4 KMS AR4	3.15.23	1301	X			1	8oz Glass								X				
5 KMS AR5	3.15.23	1358	X			1	↓								X				
6 KMS AR Dup	3.15.23	—	X			1	↓								X				
			X			1									X				
			X			1									X				
			X			1									X				

Additional Comments: *See Katherine Johnson Middle School - PEA Investigation Proposed Sampling, Table 2 for required OCP detection limits.

EDF FORMAT

OHK BY DISTRIBUTION
SUB-OUT

Relinquished By:	Date/Time: 03/16/23 1220	Received By: Michelle Spencer PM Amanda V	Date/Time: 3/16/23 1220
Relinquished By:	Date/Time: 3/16/23 1322	Received By:	Date/Time: 3-17-23 0930
Relinquished By:	Date/Time:	Received By:	Date/Time:

Sample Condition: Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ___ Transportation Method: ___

Page 1 of 1

White = Lab Yellow = Lab Pink = ATC

Chain of Custody and Cooler Receipt Form for 2305469 Page 2 of 2

PACE ANALYTICAL — COOLER RECEIPT FORM — Page 1 Of 1

Submission #: 23-05469

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ GSO / GLS ☒ Hand Delivery ☐
Pace Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity 0.97 Container: Clear glass Thermometer ID: 337

Temperature: (A) 5.6 °C / (C) 5.3 °C

Date/Time 3.17.23

Analyst Init SMH 0930

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A,B	A,B	A,B	A,B	A,B	A,B				
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: TODD L Date/Time: 3.17.23 1750

A = Actual / C = Corrected

Rev 23 05/20/22

[S:\RPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 23]

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2305469-01	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 13:19
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS OP4	**Lab Matrix:**	Solids
	Sampled By:	Jim Kundert	**Sample Type:**	Soil
2305469-02	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 14:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS OP5	**Lab Matrix:**	Solids
	Sampled By:	Jim Kundert	**Sample Type:**	Soil
2305469-03	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS OP DUP	**Lab Matrix:**	Solids
	Sampled By:	Jim Kundert	**Sample Type:**	Soil
2305469-04	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 13:01
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS AR4	**Lab Matrix:**	Solids
	Sampled By:	Jim Kundert	**Sample Type:**	Soil
2305469-05	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 13:58
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS AR5	**Lab Matrix:**	Solids
	Sampled By:	Jim Kundert	**Sample Type:**	Soil
2305469-06	**COC Number:**	---	**Receive Date:**	03/17/2023 09:30
	Project Number:	---	**Sampling Date:**	03/15/2023 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	KJMS AR Dup	**Lab Matrix:**	Solids
	Sampled By:	Jim Kundert	**Sample Type:**	Soil

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2305469-01 | **Client Sample Name:** KJMS OP4, 3/15/2023 1:19:00PM, Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	ND		1
4,4'-DDD	**0.00035**	**mg/kg**	**0.00050**	**0.000064**	**EPA-8081A**	ND	**J**	1
4,4'-DDE	**0.0052**	**mg/kg**	**0.00050**	**0.000095**	**EPA-8081A**	ND		1
4,4'-DDT	**0.0082**	**mg/kg**	**0.00050**	**0.000040**	**EPA-8081A**	ND		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Endrin ketone	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A	ND		1
Hexachlorobenzene	ND	mg/kg	0.0020	0.00029	EPA-8081A	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.0020	0.00032	EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	ND		1
TCMX (Surrogate)	24.1	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	45.1	%	40 - 130 (LCL - UCL)		EPA-8081A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/20/23 17:15	03/22/23 11:28	HKS	GC-17	0.993	B162635	EPA 3550B

DCN = Data Continuation Number

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Pace Analytical
ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2305469-02 | **Client Sample Name:** KJMS OP5, 3/15/2023 2:05:00PM, Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	ND		1
4,4'-DDD	ND	mg/kg	0.00050	0.000064	EPA-8081A	ND		1
4,4'-DDE	ND	mg/kg	0.00050	0.000095	EPA-8081A	ND		1
4,4'-DDT	ND	mg/kg	0.00050	0.000040	EPA-8081A	ND		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Endrin ketone	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A	ND		1
Hexachlorobenzene	ND	mg/kg	0.0020	0.00029	EPA-8081A	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.0020	0.00032	EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	ND		1
TCMX (Surrogate)	54.1	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	73.7	%	40 - 130 (LCL - UCL)		EPA-8081A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/20/23 17:15	03/22/23 11:45	HKS	GC-17	1.014	B162635	EPA 3550B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2305469-03 | **Client Sample Name:** KJMS OP DUP, 3/15/2023 12:00:00AM, Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A	ND		1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A	ND		1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	ND		1
4,4'-DDD	**0.00088**	**mg/kg**	**0.00050**	**0.000064**	**EPA-8081A**	ND		1
4,4'-DDE	**0.0036**	**mg/kg**	**0.00050**	**0.000095**	**EPA-8081A**	ND		1
4,4'-DDT	**0.026**	**mg/kg**	**0.0025**	**0.00020**	**EPA-8081A**	ND	**A10**	2
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	ND		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A	ND		1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A	ND		1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A	ND		1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A	ND		1
Endrin ketone	ND	mg/kg	0.00050	0.000065	EPA-8081A	ND		1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	ND		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A	ND		1
Hexachlorobenzene	ND	mg/kg	0.0020	0.00029	EPA-8081A	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.0020	0.00032	EPA-8081A	ND		1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	ND		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	ND		1
TCMX (Surrogate)	25.8	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	49.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/20/23 17:15	03/22/23 12:02	HKS	GC-17	0.990	B162635	EPA 3550B
2	EPA-8081A	03/20/23 17:15	03/23/23 13:32	HKS	GC-17	4.950	B162635	EPA 3550B

DCN = Data Continuation Number

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Pace Analytical
ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305469-04 | **Client Sample Name:** KJMS AR4, 3/15/2023 1:01:00PM, Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	**2.6**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/22/23 07:05	03/23/23 08:21	JCC	PE-OP4	0.952	B162400	EPA 3050B

DCN = Data Continuation Number

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Pace Analytical
ENVIRONMENTAL SCIENCES

ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305469-05 | **Client Sample Name:** KJMS AR5, 3/15/2023 1:58:00PM, Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	**3.6**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/22/23 07:05	03/23/23 08:22	JCC	PE-OP4	0.971	B162400	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

BCL Sample ID: 2305469-06 | **Client Sample Name:** KJMS AR Dup, 3/15/2023 12:00:00AM, Jim Kundert

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	**2.5**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/22/23 07:05	03/23/23 08:37	JCC	PE-OP4	1	B162400	EPA 3050B

DCN = Data Continuation Number

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162635							
Aldrin	B162635-BLK1	ND	mg/kg	0.00050	0.000018		1
alpha-BHC	B162635-BLK1	ND	mg/kg	0.00050	0.000038		1
beta-BHC	B162635-BLK1	ND	mg/kg	0.00050	0.000048		1
delta-BHC	B162635-BLK1	ND	mg/kg	0.00050	0.000037		1
gamma-BHC (Lindane)	B162635-BLK1	ND	mg/kg	0.00050	0.000018		1
Chlordane (Technical)	B162635-BLK1	ND	mg/kg	0.050	0.0010		1
4,4'-DDD	B162635-BLK1	ND	mg/kg	0.00050	0.000064		1
4,4'-DDE	B162635-BLK1	ND	mg/kg	0.00050	0.000095		1
4,4'-DDT	B162635-BLK1	ND	mg/kg	0.00050	0.000040		1
Dieldrin	B162635-BLK1	ND	mg/kg	0.00050	0.000036		1
Endosulfan I	B162635-BLK1	ND	mg/kg	0.00050	0.000020		1
Endosulfan II	B162635-BLK1	ND	mg/kg	0.00050	0.000034		1
Endosulfan sulfate	B162635-BLK1	ND	mg/kg	0.00050	0.000026		1
Endrin	B162635-BLK1	ND	mg/kg	0.00050	0.000065		1
Endrin aldehyde	B162635-BLK1	ND	mg/kg	0.00050	0.000018		1
Endrin ketone	B162635-BLK1	ND	mg/kg	0.00050	0.000065		1
Heptachlor	B162635-BLK1	ND	mg/kg	0.00050	0.000086		1
Heptachlor epoxide	B162635-BLK1	ND	mg/kg	0.00050	0.000017		1
Hexachlorobenzene	B162635-BLK1	ND	mg/kg	0.0020	0.00029		1
Hexachlorocyclopentadiene	B162635-BLK1	ND	mg/kg	0.0020	0.00032		1
Methoxychlor	B162635-BLK1	ND	mg/kg	0.00050	0.000094		1
Toxaphene	B162635-BLK1	ND	mg/kg	0.050	0.0014		1
TCMX (Surrogate)	**B162635-BLK1**	**83.1**	%	**20 - 130 (LCL - UCL)**			1
Decachlorobiphenyl (Surrogate)	**B162635-BLK1**	**109**	%	**40 - 130 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162635-BLK1	PB	EPA-8081A	03/20/23	03/22/23 09:31	HKS	GC-17	0.984

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1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162635											
Aldrin	B162635-BS1	LCS	0.0050441	0.0050167	mg/kg	101		70 - 130			1
gamma-BHC (Lindane)	B162635-BS1	LCS	0.0051455	0.0050167	mg/kg	103		60 - 140			1
4,4'-DDT	B162635-BS1	LCS	0.0059783	0.0050167	mg/kg	119		60 - 140			1
Dieldrin	B162635-BS1	LCS	0.0052569	0.0050167	mg/kg	105		70 - 130			1
Endrin	B162635-BS1	LCS	0.0052221	0.0050167	mg/kg	104		60 - 140			1
Heptachlor	B162635-BS1	LCS	0.0051548	0.0050167	mg/kg	103		60 - 140			1
TCMX (Surrogate)	B162635-BS1	LCS	0.0082592	0.010033	mg/kg	82.3		20 - 130			1
Decachlorobiphenyl (Surrogate)	B162635-BS1	LCS	0.020613	0.020067	mg/kg	103		40 - 130			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162635-BS1	LCS	EPA-8081A	03/20/23	03/22/23 09:47	HKS	GC-17	1.003

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Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162635	Used client sample: N											
Aldrin	MS	2305262-01	ND	0.0060659	0.0050676	mg/kg		120		50 - 140		1
	MSD	2305262-01	ND	0.0059023	0.0049669	mg/kg	2.7	119	30	50 - 140		2
gamma-BHC (Lindane)	MS	2305262-01	ND	0.0054257	0.0050676	mg/kg		107		50 - 140		1
	MSD	2305262-01	ND	0.0052781	0.0049669	mg/kg	2.8	106	30	50 - 140		2
4,4'-DDT	MS	2305262-01	ND	0.0065456	0.0050676	mg/kg		129		50 - 140		1
	MSD	2305262-01	ND	0.0059685	0.0049669	mg/kg	9.2	120	30	50 - 140		2
Dieldrin	MS	2305262-01	ND	0.0059645	0.0050676	mg/kg		118		40 - 140		1
	MSD	2305262-01	ND	0.0056407	0.0049669	mg/kg	5.6	114	30	40 - 140		2
Endrin	MS	2305262-01	ND	0.0062264	0.0050676	mg/kg		123		50 - 150		1
	MSD	2305262-01	ND	0.0058825	0.0049669	mg/kg	5.7	118	30	50 - 150		2
Heptachlor	MS	2305262-01	ND	0.0056807	0.0050676	mg/kg		112		60 - 140		1
	MSD	2305262-01	ND	0.0054983	0.0049669	mg/kg	3.3	111	30	60 - 140		2
TCMX (Surrogate)	MS	2305262-01	ND	0.010057	0.010135	mg/kg		99.2		20 - 130		1
	MSD	2305262-01	ND	0.0095877	0.0099338	mg/kg	4.8	96.5		20 - 130		2
Decachlorobiphenyl (Surrogate)	MS	2305262-01	ND	0.023965	0.020270	mg/kg		118		40 - 130		1
	MSD	2305262-01	ND	0.021796	0.019868	mg/kg	9.5	110		40 - 130		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162635-MS1	MS	EPA-8081A	03/20/23	03/22/23 10:04	HKS	GC-17	5.068
2	B162635-MSD1	MSD	EPA-8081A	03/20/23	03/22/23 10:21	HKS	GC-17	4.967

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B162400							
Arsenic	B162400-BLK1	ND	mg/kg	1.0	0.40		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162400-BLK1	PB	EPA-6010B	03/22/23	03/23/23 08:26	JCC	PE-OP4	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B162400											
Arsenic	B162400-BS1	LCS	16.192	20.000	mg/kg	81.0		75 - 125			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162400-BS1	LCS	EPA-6010B	03/22/23	03/23/23 08:27	JCC	PE-OP4	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported: 03/24/2023 16:16
Project: KJMS
Project Number: 2054000356
Project Manager: Jeanne Homsey

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B162400	Used client sample: N											
Arsenic	DUP	2305442-01	2.3442	2.2044		mg/kg	6.2		20			1
	MS	2305442-01	2.3442	18.479	20.000	mg/kg		80.7		75 - 125		2
	MSD	2305442-01	2.3442	18.029	20.000	mg/kg	2.5	78.4	20	75 - 125		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B162400-DUP1	DUP	EPA-6010B	03/22/23	03/23/23 08:30	JCC	PE-OP4	1
2	B162400-MS1	MS	EPA-6010B	03/22/23	03/23/23 08:33	JCC	PE-OP4	1
3	B162400-MSD1	MSD	EPA-6010B	03/22/23	03/23/23 08:34	JCC	PE-OP4	1

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ATLAS - Modesto
1117 Lone Palm Avenue
Modesto, CA 95351

Reported:	03/24/2023 16:16
Project:	KJMS
Project Number:	2054000356
Project Manager:	Jeanne Homsey

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.

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APPENDIX D

Vapor - Laboratory Analytical Reports and Chain-of-Custody Documentation

H&P Mobile Geochemistry Inc.

27 March 2023

Jeanne Homsey
Atlas Technical Consultants - Modesto
1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351

H&P Project: ATC032123-10
Client Project: KJMS / Sacramento, CA

Dear Jeanne Homsey:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 21-Mar-23 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Lisa Eminhizer
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC) for the fields of proficiency and analytes listed on those certificates. H& P is approved as an Environmental Testing Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs for the fields of proficiency and analytes included in the certification process and to the extent offered by the accreditation agency . Unless otherwise noted, accreditation certificate numbers, expiration of certificates, and scope of accreditation can be found at: www.handpmg.com/about/certifications. Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-1S	E303043-01	Vapor	17-Mar-23	21-Mar-23
SV-1D	E303043-02	Vapor	17-Mar-23	21-Mar-23
SV-2S	E303043-03	Vapor	17-Mar-23	21-Mar-23
SV-2D	E303043-04	Vapor	17-Mar-23	21-Mar-23

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

DETECTIONS SUMMARY

Sample ID: **SV-1S** Laboratory ID: **E303043-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloromethane	**2.2**	2.1	ug/m3	EPA TO-15	
Benzene	**8.8**	3.2	ug/m3	EPA TO-15	
Toluene	**19**	3.8	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**1200**	100	ug/m3	EPA TO-15	

Sample ID: **SV-1D** Laboratory ID: **E303043-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**4.6**	3.2	ug/m3	EPA TO-15	
Toluene	**22**	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	**19**	6.9	ug/m3	EPA TO-15	
m,p-Xylene	**9.9**	8.8	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**1600**	100	ug/m3	EPA TO-15	

Sample ID: **SV-2S** Laboratory ID: **E303043-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Toluene	**31**	3.8	ug/m3	EPA TO-15	
Ethylbenzene	**5.2**	4.4	ug/m3	EPA TO-15	
m,p-Xylene	**31**	8.8	ug/m3	EPA TO-15	
o-Xylene	**7.1**	4.4	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	**8.9**	5.0	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**390**	100	ug/m3	EPA TO-15	

Sample ID: **SV-2D** Laboratory ID: **E303043-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**5.2**	3.2	ug/m3	EPA TO-15	
Toluene	**9.6**	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	**9.2**	6.9	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**790**	100	ug/m3	EPA TO-15	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1S (E303043-01) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	**2.2**	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**8.8**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**19**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1S (E303043-01) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
o-Xylene	ND	4.4	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*		*77-127*	"	"	"	"	
SV-1D (E303043-02) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**4.6**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1D (E303043-02) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
Trichloroethene	ND	5.5	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**22**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	**19**	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	**9.9**	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*		*77-127*	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2S (E303043-03) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**31**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**5.2**	4.4	"	"	"	"	"	"	
m,p-Xylene	**31**	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2S (E303043-03) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
o-Xylene	**7.1**	4.4	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**8.9**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*77-127*	"	"	"	"	
SV-2D (E303043-04) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**5.2**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2D (E303043-04) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
Trichloroethene	ND	5.5	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**9.6**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	**9.2**	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*77-127*	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Petroleum Hydrocarbon Analysis by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1S (E303043-01) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
TPHv (C5 - C12)	**1200**	100	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
SV-1D (E303043-02) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
TPHv (C5 - C12)	**1600**	100	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
SV-2S (E303043-03) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
TPHv (C5 - C12)	**390**	100	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	
SV-2D (E303043-04) Vapor Sampled: 17-Mar-23 Received: 21-Mar-23									
TPHv (C5 - C12)	**790**	100	ug/m3	1	EC32403	24-Mar-23	24-Mar-23	EPA TO-15	

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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32403 - TO-15										
Blank (EC32403-BLK1)				Prepared & Analyzed: 24-Mar-23						
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3							
Dichlorodifluoromethane (F12)	ND	5.0	"							
Chloromethane	ND	2.1	"							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	"							
Chloroethane	ND	8.0	"							
Trichlorofluoromethane (F11)	ND	5.6	"							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"							
Methylene chloride (Dichloromethane)	ND	3.5	"							
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
2-Butanone (MEK)	ND	30	"							
cis-1,2-Dichloroethene	ND	4.0	"							
Chloroform	ND	4.9	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Benzene	ND	3.2	"							
Carbon tetrachloride	ND	6.4	"							
Trichloroethene	ND	5.5	"							
1,2-Dichloropropane	ND	9.4	"							
Bromodichloromethane	ND	6.8	"							
cis-1,3-Dichloropropene	ND	4.6	"							
4-Methyl-2-pentanone (MIBK)	ND	8.3	"							
trans-1,3-Dichloropropene	ND	4.6	"							
Toluene	ND	3.8	"							
1,1,2-Trichloroethane	ND	5.5	"							
2-Hexanone (MBK)	ND	8.3	"							
Dibromochloromethane	ND	8.6	"							
Tetrachloroethene	ND	6.9	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,1,1,2-Tetrachloroethane	ND	7.0	"							

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1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32403 - TO-15										
Blank (EC32403-BLK1)				Prepared & Analyzed: 24-Mar-23						
Chlorobenzene	ND	4.7	ug/m3							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
Styrene	ND	4.3	"							
o-Xylene	ND	4.4	"							
Bromoform	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	12	"							
1,4-Dichlorobenzene	ND	12	"							
1,2-Dichlorobenzene	ND	12	"							
1,2,4-Trichlorobenzene	ND	38	"							
Hexachlorobutadiene	ND	54	"							
Surrogate: 1,2-Dichloroethane-d4	*214*		*"*	*214*		*100*	*76-134*			
Surrogate: Toluene-d8	*211*		*"*	*208*		*101*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*378*		*"*	*363*		*104*	*77-127*			
LCS (EC32403-BS1)				Prepared & Analyzed: 24-Mar-23						
Dichlorodifluoromethane (F12)	110	5.0	ug/m3	101		106	59-128			
Vinyl chloride	57	2.6	"	52.0		109	64-127			
Chloroethane	59	8.0	"	53.6		110	63-127			
Trichlorofluoromethane (F11)	120	5.6	"	113		103	62-126			
1,1-Dichloroethene	77	4.0	"	80.8		95.8	61-133			
1,1,2-Trichlorotrifluoroethane (F113)	150	7.7	"	155		97.3	66-126			
Methylene chloride (Dichloromethane)	70	3.5	"	70.8		98.4	62-115			
trans-1,2-Dichloroethene	76	8.0	"	80.8		94.2	67-124			
1,1-Dichloroethane	81	4.1	"	82.4		97.8	68-126			
cis-1,2-Dichloroethene	75	4.0	"	80.0		94.3	70-121			
Chloroform	100	4.9	"	99.2		100	68-123			
1,1,1-Trichloroethane	110	5.5	"	111		96.6	68-125			
1,2-Dichloroethane (EDC)	86	4.1	"	82.4		105	65-128			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32403 - TO-15										
LCS (EC32403-BS1)				Prepared & Analyzed: 24-Mar-23						
Benzene	63	3.2	ug/m3	64.8		96.5	69-119			
Carbon tetrachloride	130	6.4	"	128		99.1	68-132			
Trichloroethene	110	5.5	"	110		102	71-123			
Toluene	75	3.8	"	76.8		97.8	66-119			
1,1,2-Trichloroethane	110	5.5	"	111		101	73-119			
Tetrachloroethene	140	6.9	"	138		102	66-124			
1,1,1,2-Tetrachloroethane	140	7.0	"	140		103	67-129			
Ethylbenzene	88	4.4	"	88.4		99.9	70-124			
m,p-Xylene	91	8.8	"	88.4		103	61-134			
o-Xylene	96	4.4	"	88.4		108	67-125			
1,1,2,2-Tetrachloroethane	140	7.0	"	140		100	65-127			
Surrogate: 1,2-Dichloroethane-d4	*233*		*"*	*214*		*109*	*76-134*			
Surrogate: Toluene-d8	*210*		*"*	*208*		*101*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*403*		*"*	*363*		*111*	*77-127*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
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760-804-9678 Phone
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Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Petroleum Hydrocarbon Analysis by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC32403 - TO-15										
Blank (EC32403-BLK1)				Prepared & Analyzed: 24-Mar-23						
TPHv (C5 - C12)	ND	100	ug/m3							

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Technical Consultants - Modesto	Project: ATC032123-10	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	27-Mar-23 12:31

Notes and Definitions

LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

H&P Mobile Geochemistry, Inc.

2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com

VAPOR / AIR Chain of Custody

DATE: 3-17-2023
Page 1 of 1

ATC032123-10

Lab Client and Project Information

Lab Client/Consultant: Atlas Technical Consulting	Project Name / #: KJMS
Lab Client Project Manager: Jeanne Homsey	Project Location: Sacramento, CA
Lab Client Address: 1117 Lone Palm Ave, Suite 201B	Report E-Mail(s): jeanne.homsey@oneatlas.com, jim.kundert@oneatlas.com
Lab Client City, State, Zip: Modesto, CA 95351	
Phone Number: 209-579-2221	

Sample Receipt (Lab Use Only)

Date Rec'd: 3/21/23 Control #: 230180.01
H&P Project # ~~ATC032123-10~~
Lab Work Order # E303043
Sample Intact: ☑ Yes ☐ No ☐ See Notes Below
Receipt Gauge ID: 60206 Temp: RT
Outside Lab:
Receipt Notes/Tracking #: 1Z93T761905107 3878
Lab PM Initials: KB

Reporting Requirements

☑ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☒ **Standard** (7 days for preliminary report, 10 days for final report)
☐ **Rush** (specify):

Sampler Information

Sampler(s): Jim Kundert
Signature:
Date: 3-17-2023

Additional Instructions to Laboratory:

** Preferred VOC units (please choose one):*
☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☒ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15	TPHv as Gas ☐ 8260SVm ☒ TO-15m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2				
SV-1S		3/17/23	1138	SV	400 mL	990	-5	X				X		X						
SV-1D		↓	1127	↓	↓	017	-4	X				X		X						
SV-2S			1002			238	-4	X				X		X						
SV-2D			1117			141	-5	X				X		X						

Approved/Relinquished by:	Company: Atlas	Date: 3-17-23	Time: 1700	Received by: LOC UPS	Company: H&P	Date: 3/21/23	Time: 1015
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

**Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back*

Appendix A-2

Limited Investigation Report Addendum by Atlas

LIMITED INVESTIGATION REPORT ADDENDUM

Katherine Johnson Middle School
2641 Kent Drive
Sacramento, California

Submitted to:

Kitchell CEM
2450 Venture Oaks Way, Suite 500
Sacramento, CA 95833

Submitted by:

Atlas Technical Consultants
1117 Lone Palm Ave, Suite 201B
Modesto, California 95351

Atlas Project # Z054000356

April 12, 2023

April 12, 2023

Ms. Martha Estrada
Program Manager
Kitchell CEM
2450 Venture Oaks Way, Suite 500
Sacramento, CA 95833

Subject: **Limited Investigation Report Addendum**
Katherine Johnson Middle School
2641 Kent Drive
Sacramento, California 95864

Dear Ms. Estrada:

Atlas Technical Consultants (Atlas), on behalf of the Kitchell CEM (Kitchell), has prepared this *Limited Investigation Report Addendum* to document field activities and findings performed in April 2023 at the former Creekside Adult Center located at 2641 Kent Drive in Sacramento, California (**Figure 1**). The purpose of this investigation was to further assess subsurface soil vapor conditions in accordance with the *Katherine Johnson Middle School - PEA Investigation Proposed Sampling* document provided to Atlas via email correspondence on March 3, 2023 and the request for additional soil vapor sampling via email correspondence on March 30. 2023. This letter report documents field activities and results of this investigation.

1.0 SCOPE OF WORK

Atlas was contracted to perform the collection of additional soil vapor samples along the southern border of the site. All assessment activities were performed under the direction of a State of California-licensed engineer. Additionally a representative from the Department of Toxic Substance Control was present on site to witness vapor point installation and sample collection procedures.

1.1 SOIL VAPOR SAMPLING ACTIVITIES

On April 7, 2023, additional soil vapor sampling activities were conducted at the site. Tailgate safety meeting was conducted prior to commencement of field work. Three sets of two soil borings were advanced at the site at the locations shown in **Figure 2**.

On April 7, 2023, an Atlas geologist supervised the installation of two sets or temporary soil vapor probes at three locations by TEG-Northern California (TEG), a C-57 licensed drilling contractor. Soil vapor probe locations are identified as SV-3s, SV-3d, SV-4s, SV-4d, SV-5s, and SV-5d and are shown on **Figure 2**.

Three shallow one-inch diameter soil borings were each advanced to a depth of 5 feet bgs and three deeper one-inch diameter soil borings were each advanced to a depth of 10 feet bgs to facilitate the collection of soil vapor samples. Each soil vapor probe was advanced to the target depth, then retracted between six inches and one foot while vapor flow was tested. If vapor flow was sufficient, the rod was then secured at the surface by compacting the soil around it and adding hydrated bentonite to seal the space between the rod and the boring. A threaded length

of dedicated tubing was then fed into the rod and secured at the bottom. Each rod and tubing assembly was then allowed to stabilize for two hours, per DTSC guidelines for soil vapor sampling.

In preparation for sampling, a three-way probe sampling assembly was constructed for each soil vapor probe. One of the three ports was attached to the nylon tubing connected to the soil vapor filter. A second port was connected to a syringe for purging and a vacuum/pressure gauge to measure the vacuum while purging. The third port was used to withdraw soil vapor samples. At least two hours after installation, each soil vapor probe was purged and sampled according to current California Department of Toxic Substance Control (DTSC) soil vapor sampling guidelines using laboratory-supplied manifolds and stainless-steel Summa canisters. Sample withdrawal rates were restricted to 100 to 200 milliliters (ml) per minute by a flow restrictor device included within the sampling assembly. The sampling assemblies were purged by removing three purge volumes of air using a 60-ml plastic syringe. The necessary purge volumes were determined by adding the volume of the annular space associated with the sand pack and the internal volume of sampling assembly. Once purging was complete, the purging branch of the manifold was closed via a valve and a 200-ml per minute flow restrictor was connected to a dedicated 400-ml Summa canister, provided by an off-site analytical laboratory, to collect the sample.

The probe sampling assemblies dedicated to each soil vapor probe location were subjected to "shut in" and leak testing prior to use. The "shut in" test was used to check the integrity of the assembly by establishing a vacuum of approximately 15 to 25 inches of mercury (in Hg) by closing external valves and drawing the purging syringe back to create a vacuum and then holding the vacuum steady for approximately five minutes. All assemblies maintained vacuum of 15 to 25 in Hg for five minutes indicating an absence of leaks.

During purging, testing, and sampling activities, a "leak test" was conducted. A temporary plastic enclosure was constructed to envelope the surface seal. A leak check compound consisting of 1,1-difluoroethane (1,1-DFA) was introduced into the enclosure, exposing the surface seal to the leak check compound.

Soil vapor samples were collected from soil vapor probes SV-3s, SV-3d, SV-4s, SV-4d, SV-5s, and SV-5d using dedicated Summa canisters. A duplicate sample was collected from SV-3d. Upon completion of sampling, all the soil vapor probes were removed, and the borings were filled to grade with neat cement grout, in accordance with State of California regulations.

Copies of field notes are included in **Appendix A**.

1.2 LABORATORY ANALYSIS – VAPOR SAMPLES

Following collection of soil vapor samples, the Summa canisters were shipped under chain-of-custody procedures to H&P Mobile Geochemistry Inc. laboratory in Carlsbad, California. The soil vapor samples were analyzed for VOCs per EPA Method TO-15, and for the leak check compound 1,1-DFA.

2.0 VAPOR ANALYTICAL RESULTS

Laboratory analytical concentrations for vapor samples collected as part of this investigation are summarized in the following sections. Analytical results for vapor samples collected during this investigation are also presented in **Table 1**.

Copies of the official laboratory analytical reports and chain-of-custody documentation for samples analyzed during this investigation are provided in **Appendix B** of this report.

A total of seven vapor samples collected at depths of either 5 feet or 10 feet bgs during this investigation were analyzed for volatile organic compounds (VOCs).

The leak check compound (LCC) was detected in the sample from SV-5s at more than five times the respective detection limits of the compounds of interest at this site. While the other analytes detected in this sample generally follow the trends of the other samples collected on April 7, they should not be relied upon without reservation. The presence of the LCC can indicate that ambient air was available to be pulled into the sample, potentially diluting compounds present in the sample or introducing compounds from the ambient air into the sample.

Benzene was detected in all seven samples collected during this stage of the investigation at concentrations ranging from 4.9 µg/m³ (SV-3d) to 14 µg/m³ (SV-4s).

Toluene was detected in all seven samples collected during this stage of the investigation at concentrations ranging from 13 µg/m³ (SV-4d) to 31 µg/m³ (SV-4s).

Ethylbezene was detected in sample SV-4s at a concentration of 4.6 µg/m³.

Xylenes (o) were detected in one of the samples, SV-5d, at a concentration of 4.7 µg/m³. M- and p-xylenes were not detected in samples collected on April 7.

Styrene, not previously detected at this site, was detected in all seven samples SV-4s at a concentrations ranging from 45 µg/m³ (SV-3s) to 72 µg/m³ (SV-3d duplicate).

Carbon disulfide, not previously detected at this site, was detected in sample SV-4s at a concentration of 7.6 µg/m³.

Methyl ethyl ketone (2-Butanone), not previously detected at this site, was detected in sample SV-5s at a concentration of 50 µg/m³.

Tetrachloroethene, detected previously in soil vapor samples collected at the site, was not detected in samples collected on April 7, 2023.

1,2,4-Trimethylbenzene and Chloromethane were not detected in samples collected on April 7, 2023.

3.0 COMPARISON TO HEALTH-BASED SCREENING LEVELS

3.1 Comparison to Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board – Vapor Results

Laboratory analytical results for vapor samples collected as part of this investigation were compared to the Environmental Screening Levels (ESLs) for Tier 1, Commercial and Residential Land Use (August 2019, Revision 2). The Screening Levels are also presented in **Table 1**.

Based on laboratory analysis of the vapor samples collected in April 2023, benzene was detected in all seven samples collected during this investigation at concentrations in excess of their respective Tier 1 and Residential Health-Based ESLs. Benzene concentrations reached the Commercial Health-based ESL in one sample.

No other analytes were detected in vapor samples collected during this additional investigation at concentrations in excess of their respective Tier 1, Residential or Commercial Health-Based ESL.

4.0 LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Atlas's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of the Client for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Atlas. To the extent this report is based on information provided to Atlas by third parties, Atlas may have made efforts to verify this third party information, but Atlas cannot guarantee the completeness or accuracy of this third party information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Atlas.

Atlas appreciates the opportunity to assist you on this project. If you have any questions or require additional information, please contact Jeanne Homsey at (209) 579-2221.

Respectfully submitted,

Atlas

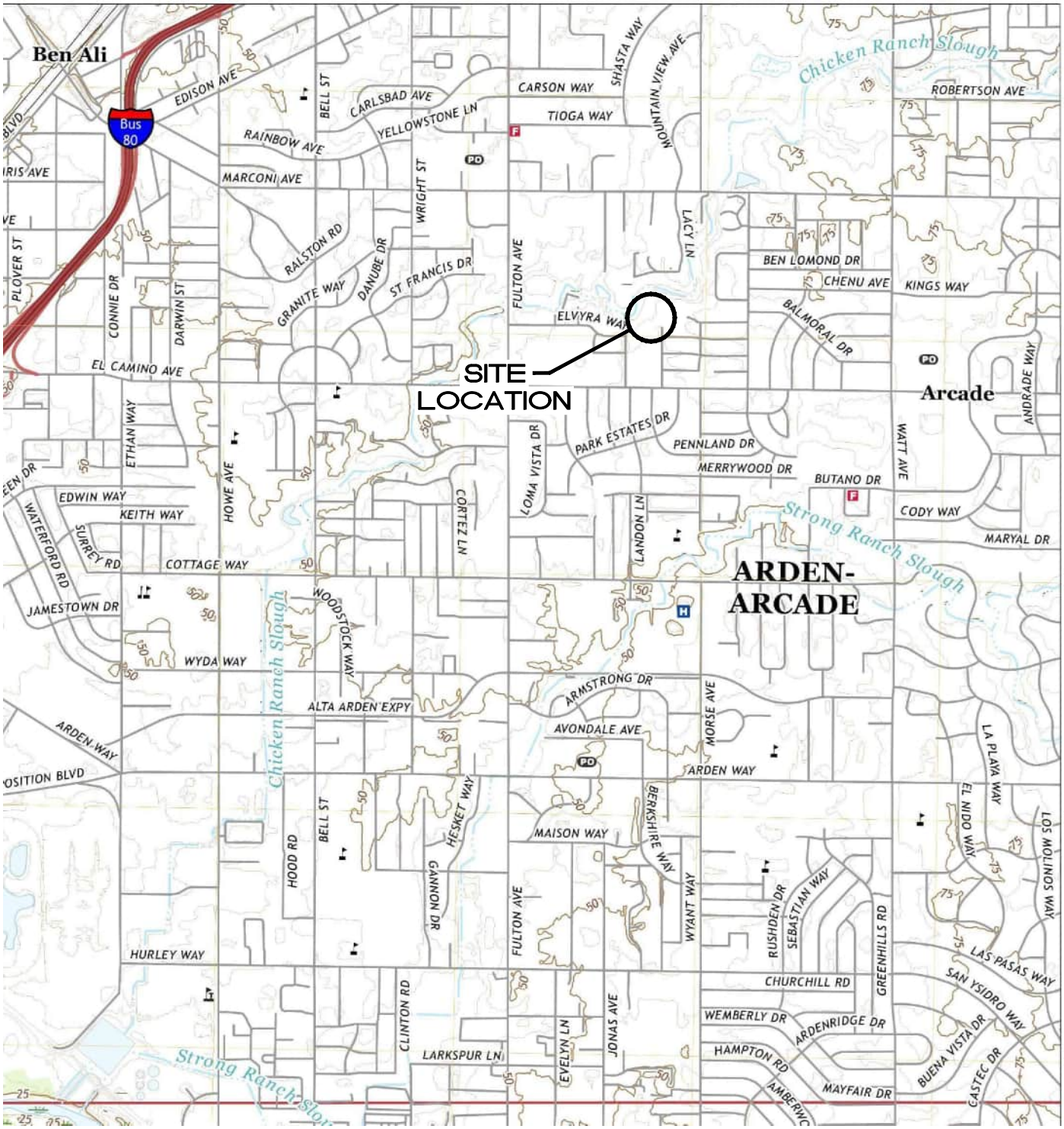
Jim Kundert
Project Geologist
Email: jim.kundert@oneatlas.com

Jeanne Homsey, PE
Branch Manager
Email: jeanne.homsey@oneatlas.com

Attachments



FIGURES



SOURCE: USGS TOPO MAP, SACRAMENTO EAST, CA QUAD, 2021

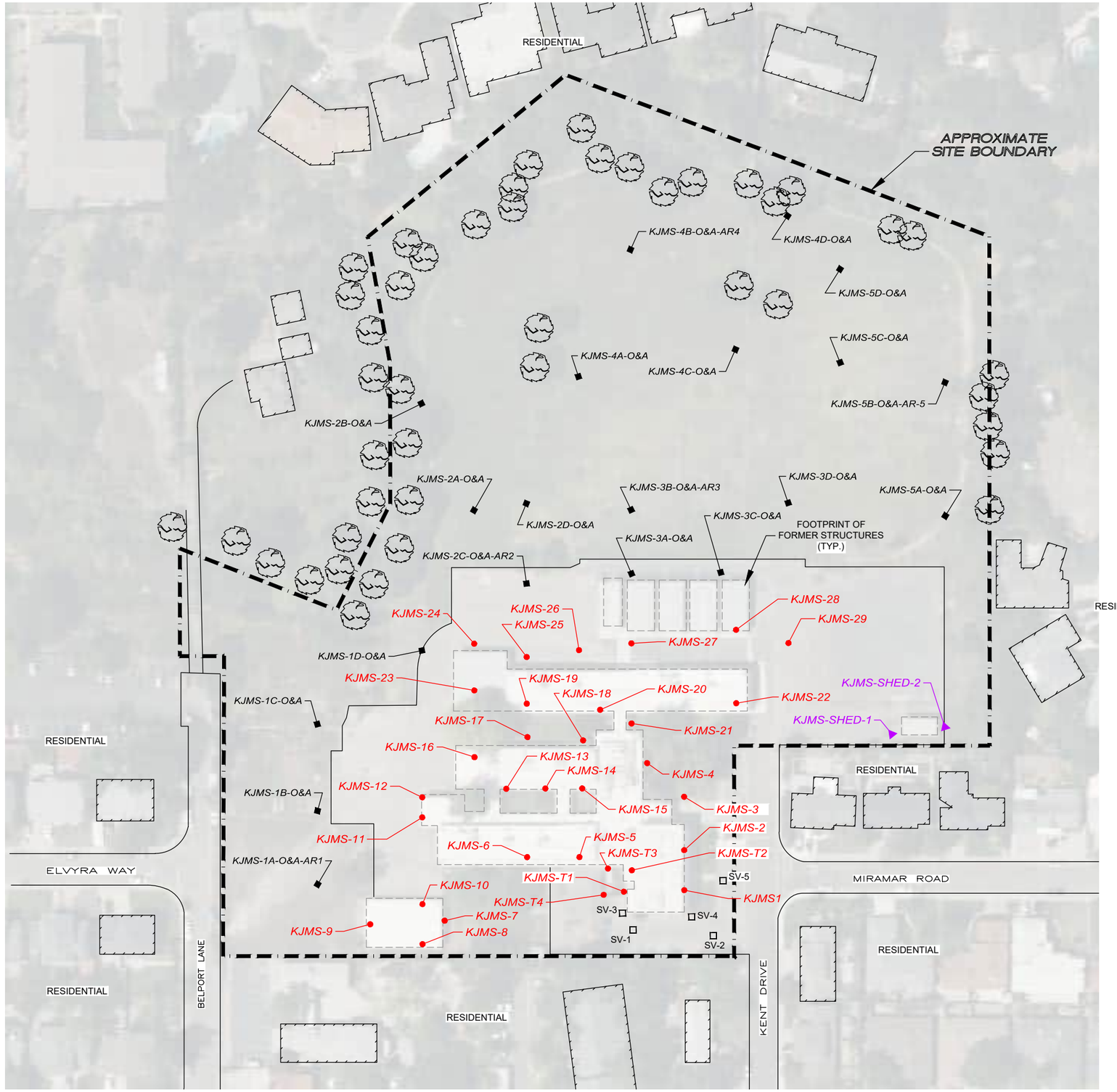
SITE VICINITY MAP

KATHERINE JOHNSON MIDDLE SCHOOL
2641 KENT DRIVE
SACRAMENTO, CA

PROJECT NUMBER: Z054000356		DATE: 3/23/23	FIGURE 1
APPROVED BY: JH		DRAWN BY: BK	

ATLAS
1117 Lone Palm Avenue, Ste. 201
Modesto, California 95351
Ph: (209) 579-2221 *** Fax: (209) 579-2225

S:\Projects-BST\KITCHEL CM\Z054000356 KJ MIDDLE SCHOOL\1_TOPOMAP.dwg



LEGEND

- SOIL SAMPLE
- SOIL SAMPLE
- SOIL SAMPLE
- SOIL SAMPLE

0 100 200

APPROX. SCALE, FT

NOTE: SCALE AND LOCATIONS ARE APPROXIAMTE

S:\Projects-BST\KITCHEL CM\Z054000356 KJ MIDDLE SCHOOL\SITEPLAN.dwg

SITE PLAN & SAMPLE LOCATIONS

KATHERINE JOHNSON MIDDLE SCHOO;L
2641 KENT DRIVE
SACRAMENTO, CA

PROJECT NUMBER: Z054000356 | DATE: 4/11/23 | FIGURE 2
APPROVED BY: JH | DRAWN BY: BK

ATLAS
1117 Lone Palm Avenue, Ste. 201
Modesto, California 95351
Ph: (209) 579-2221 *** Fax: (209) 579-2225

TABLES

Table 1
Summary of Soil Vapor Sample Analytical Results
2641 Kent Drive, Sacramento, CA

Boring ID	Sample ID	Sample Date	Sample Depth (feet bgs)	TPHv (C5-C12) (µg/m^3)	Tetrachloroethene (µg/m^3)	Benzene (µg/m^3)	Toluene (µg/m^3)	Ethylbenzene (µg/m^3)	m,p-Xylene (µg/m^3)	o-Xylene (µg/m^3)	Styrene (µg/m^3)	1,2,4-Trimethylbenzene (µg/m^3)	Carbon Disulfide (µg/m^3)	2-Butanone (MEK) (µg/m^3)	Chloromethane (µg/m^3)
SV-1s	SV-1	3/17/2023	3.5 to 5	**1,200**	<6.9	**8.8**	**19**	<4.4	<8.8	<4.4	<4.3	<5.0	<6.3	<30	**2.2**
SV-1d	SV-1	3/17/2023	9 to 10	**1,600**	**19**	**4.6**	**22**	<4.4	**9.9**	<4.4	<4.3	<5.0	<6.3	<30	<2.1
SV-2s	SV-2	3/17/2023	4 to 5	**390**	<6.9	<3.2	**31**	**5.2**	**31**	**7.1**	<4.3	**8.9**	<6.3	<30	<2.1
SV-2d	SV-2	3/17/2023	9 to10	**790**	**9.2**	**5.2**	**9.6**	<4.4	<8.8	<4.4	<4.3	<5.0	<6.3	<30	<2.1
SV-3s	SV-3 5'	4/7/2023	4 to 5	**320**	<6.9	**4.1**	**20**	<4.4	<8.8	<4.4	**45**	<5.0	<6.3	<30	<2.1
SV-3d	SV-3 10'	4/7/2023	9 to10	**620**	<6.9	**5.8**	**24**	<4.4	<8.8	<4.4	**59**	<5.0	<6.3	<30	<2.1
SV-3d	DUP	4/7/2023	9 to10	**350**	<6.9	**3.9**	**19**	<4.4	<8.8	<4.4	**72**	<5.0	<6.3	<30	<2.1
SV-4s	SV-4 5'	4/7/2023	4 to 5	**1,300**	<6.9	**14**	**27**	**4.6**	<8.8	<4.4	**52**	<5.0	**7.6**	<30	<2.1
SV-4d	SV-4 10'	4/7/2023	9 to10	**1,800**	<6.9	**11**	**31**	<4.4	<8.8	<4.4	**63**	<5.0	<6.3	<30	<2.1
SV-5s [4]	SV-5 5'	4/7/2023	4 to 5	**770**	<6.9	**5.8**	**13**	<4.4	<8.8	<4.4	**57**	<5.0	<6.3	**50**	<2.1
SV-5d	SV-5 10'	4/7/2023	9 to10	**2,300**	<6.9	**11**	**25**	<4.4	<8.8	**4.7**	**68**	<5.0	<6.3	<30	<2.1
			Tier 1 ESLs[1]	**3,300**	**15**	**3.2**	**10,000**	**37**	**3,500**	**3,500**	**31,000**	**--**	**--**	**170,000**	**3,100**
			Residential ESLs [2]	**20,000**	**15**	**3.2**	**10,000**	**37**	**3,500**	**3,500**	**31,000**	**--**	**--**	**170,000**	**3,100**
			Commercial ESLs[3]	**83,000**	**67**	**14**	**44,000**	**160**	**15,000**	**15,000**	**130,000**	**--**	**--**	**730,000**	**13,000**

Notes:

µg/m^3 Micrograms per cubic meter

bgs Below ground surface

-- Not applicable, sample not analyzed, or no applicable standard identified

Samples analyzed for Volatile Organic Compounds (VOCs) by Method TO-15.

Only detected VOCs are tablulated. See laboratory report for full list of analytes and method detection limits.

ESLs: Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, August 2019 (Revison 2).

[1] - Tier 1 ESLs for soil vapor reflect the lower of values that are protective of human health under a residential or commercial/industrial land use scenario. These values are intended to be protective of human health under any land use scenario

[2] - Residential soil vapor ESLs are human health-based screening levels for Residential Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints. These values are intended to be protective of potential human exposures to shallow soil under a Residential land use scenario

[3] - Commercial (Industrial) soil vapor ESLs are human health-based screening levels for Commercial/Industrial Land Use and reflect the lower of carcinogenic or noncarcinogenic endpoints. These values are intended to be protective of potential human exposures to shallow soil under a commercial/industrial land use scenario

[4] - Sample contained detectable concentration of the leak check compound (LCC) 1,1-difluoroethane ; other detected analytes may have been diluted or introduced by ambient air.

XXX Represents a detected concentration in excess of the chemical-specific Residential Health-Based ESL, but equal to or less than the chemical-specific Commercial ESL

XXX Represents a detected concentration in excess of the chemical-specific Residential ESL and Commercial Health-Based ESL

APPENDIX A

Field Note Documentation

Field Report

FLD-100
Revision 2.0
Feb-16

ATC Branch: Modesto, CA	Date: April 7, 2023	Page 1 of
ATC Representative(s): JK	Project: KJMS	
Role: ~~Technician~~ Geologist / Oversight	Location: Kent Dr., Sacramento	
Contact Information:	Project No: 20540000356	Task No: 06054
Scope of Work:	Weather: overcast	Temperature: 60s
___ Monitoring X Assessment ___ Remediation ___ Closure	Contractor: TEG	

Time:	Comments:
0800	Atlas onsite; check in at construction office
	DTSC onsite (Pete Ruttan)
	job walk w/ Kitchell, grading contractor, DTSC, & TEG
	site areas beyond previously paved lots are still very wet and uneven.
	decisions regarding adjusted locations made w/ DTSC input
	(Lime dust application ongoing on site; Atlas/TEG operations generally paused)
~0940	SV 3s & 3d installed at NW corner of former parking area DTSC observed & left site
~1030	SV 4s & 4d installed near SE corner of former Gym building
~1120	SV 5s & 5d installed in former parking strip along Kent, directly across from cross street
1130	DTSC returns to observe sampling
	Sampling shut-in tests all succeed at ~ 21 "Hg; shroud used for surface seal only.
1140 to 1340	all six points sampled; duplicate collected from SV-3d immediately after initial sample
	DTSC offsite ~1300
	TEG offsite
	clean up, GPS all five SV pairs w/ Magellan
1435	Atlas check out at office; offsite

Equipment Used:

Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

TEG / Strataprobe Field Log

Client: Atlas

Page 1 of 1

Location: 2641 Kent Dr., Sacramento, CA

Date: 4-7-23

Client ID#: N/A

Project Manager: J. Homsey

Start Time: 800

TEG #: 404075-5

TEG Operator: C.V.S.

Finish Time: 1400

	Point ID	Matrix	Time Placed	Time Sampled	Target Depth	Actual Depth	Field Notes		
1			800 -	9			Site walk w/ staff		HSM
2							vacuum	man.*	can*
3	SV3 - 5	V	927	1140 1142	5	5	-29/-3	307	066
4	SV3 - 10	V	936	1150 1153	10	10	-28/-3	202	238
5	SV4 - 5	V	1005	1211 1213	5	5	-28.5/-3	098	228
6	SV4 - 10	V	1032	1240 1242	10	8	-28/-3	201	047
7	SV5 - 5	V	1105	1305 1307	5	5	-27/-3	126	141
8	SV5 - 10	V	1120	1334 1336	10	10	-27/-3	0010	016
9									
10	SV3-10 Dup			1157 1200	10	10	-26/-3	248	167
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

Site Notes: Fitting ~~##~~ Summas. Temp. vapor probes. 1 in. d.a. rod. 1/8 in. Nylaflow tubing. PRT method.

Accepted by: [signature] Name: Jim Kunkel

Screens Used: _____

Risers Used: _____

Safety Meeting Held by: signature: [signature] signature: _____

Comments/Topics: Soft mud. Don't get truck stuck.

APPENDIX B

Vapor - Laboratory Analytical Reports and Chain-of-Custody Documentation

Mobile Geochemistry Inc.

11 April 2023

Jeanne Homsey
Atlas Technical Consultants - Modesto
1117 Lone Palm Ave., Suite 201B
Modesto, CA 95351

H&P Project: ATC041023-18
Client Project: KJMS / Sacramento, CA

Dear Jeanne Homsey:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 10-Apr-23 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Lisa Eminhizer
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC) for the fields of proficiency and analytes listed on those certificates. H& P is approved as an Environmental Testing Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs for the fields of proficiency and analytes included in the certification process and to the extent offered by the accreditation agency . Unless otherwise noted, accreditation certificate numbers, expiration of certificates, and scope of accreditation can be found at: www.handpmg.com/about/certifications. Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.

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Geochemistry Inc.

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV3 5'	E304022-01	Vapor	07-Apr-23	10-Apr-23
SV3 10'	E304022-02	Vapor	07-Apr-23	10-Apr-23
SV4 5'	E304022-03	Vapor	07-Apr-23	10-Apr-23
SV4 10'	E304022-04	Vapor	07-Apr-23	10-Apr-23
SV5 5'	E304022-05	Vapor	07-Apr-23	10-Apr-23
SV5 10'	E304022-06	Vapor	07-Apr-23	10-Apr-23
Dup	E304022-07	Vapor	07-Apr-23	10-Apr-23

The percent recovery for 1,2,4-Trichlorobenzene fell below the method criteria in the continuing calibration verification. Any results for this analyte may be biased low.

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1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

DETECTIONS SUMMARY

Sample ID: **SV3 5'** Laboratory ID: **E304022-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**4.1**	3.2	ug/m3	EPA TO-15	
Toluene	**20**	3.8	ug/m3	EPA TO-15	
Styrene	**45**	4.3	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**320**	100	ug/m3	EPA TO-15	

Sample ID: **SV3 10'** Laboratory ID: **E304022-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**5.8**	3.2	ug/m3	EPA TO-15	
Toluene	**24**	3.8	ug/m3	EPA TO-15	
Styrene	**59**	4.3	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**620**	100	ug/m3	EPA TO-15	

Sample ID: **SV4 5'** Laboratory ID: **E304022-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Carbon disulfide	**7.6**	6.3	ug/m3	EPA TO-15	
Benzene	**14**	3.2	ug/m3	EPA TO-15	
Toluene	**27**	3.8	ug/m3	EPA TO-15	
Ethylbenzene	**4.6**	4.4	ug/m3	EPA TO-15	
Styrene	**52**	4.3	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**1300**	100	ug/m3	EPA TO-15	

Sample ID: **SV4 10'** Laboratory ID: **E304022-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**11**	3.2	ug/m3	EPA TO-15	
Toluene	**31**	3.8	ug/m3	EPA TO-15	
Styrene	**63**	4.3	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**1800**	100	ug/m3	EPA TO-15	

Sample ID: **SV5 5'** Laboratory ID: **E304022-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Difluoroethane (LCC)	**95**	5.5	ug/m3	EPA TO-15	
2-Butanone (MEK)	**50**	30	ug/m3	EPA TO-15	
Benzene	**5.8**	3.2	ug/m3	EPA TO-15	

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Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Sample ID: **SV5 5'** Laboratory ID: **E304022-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Toluene	**13**	3.8	ug/m3	EPA TO-15	
Styrene	**57**	4.3	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**770**	100	ug/m3	EPA TO-15	

Sample ID: **SV5 10'** Laboratory ID: **E304022-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**11**	3.2	ug/m3	EPA TO-15	
Toluene	**25**	3.8	ug/m3	EPA TO-15	
Styrene	**68**	4.3	ug/m3	EPA TO-15	
o-Xylene	**4.7**	4.4	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**2300**	100	ug/m3	EPA TO-15	

Sample ID: **Dup** Laboratory ID: **E304022-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**3.9**	3.2	ug/m3	EPA TO-15	
Toluene	**19**	3.8	ug/m3	EPA TO-15	
Styrene	**72**	4.3	ug/m3	EPA TO-15	
TPHv (C5 - C12)	**350**	100	ug/m3	EPA TO-15	

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1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3 5' (E304022-01) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**4.1**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**20**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	**45**	4.3	"	"	"	"	"	"	

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Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3 5' (E304022-01) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
o-Xylene	ND	4.4	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*		*77-127*	"	"	"	"	
SV3 10' (E304022-02) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**5.8**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3 10' (E304022-02) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
Trichloroethene	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**24**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	**59**	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.1 %*		*77-127*	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4 5' (E304022-03) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	**7.6**	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**14**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**27**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	**4.6**	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	**52**	4.3	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4 5' (E304022-03) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
o-Xylene	ND	4.4	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.6 %*		*77-127*	"	"	"	"	
SV4 10' (E304022-04) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**11**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4 10' (E304022-04) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
Trichloroethene	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**31**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	**63**	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*77-127*	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5 5' (E304022-05) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
1,1-Difluoroethane (LCC)	**95**	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	**50**	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**5.8**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**13**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	**57**	4.3	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5 5' (E304022-05) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
o-Xylene	ND	4.4	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*77-127*	"	"	"	"	
SV5 10' (E304022-06) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**11**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5 10' (E304022-06) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
Trichloroethene	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**25**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	**68**	4.3	"	"	"	"	"	"	
o-Xylene	**4.7**	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*77-127*	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Dup (E304022-07) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dichlorodifluoromethane (F12)	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	**3.9**	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	**19**	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	**72**	4.3	"	"	"	"	"	"	

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Dup (E304022-07) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
o-Xylene	ND	4.4	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*77-127*	"	"	"	"	

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Petroleum Hydrocarbon Analysis by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3 5' (E304022-01) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
TPHv (C5 - C12)	**320**	100	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
SV3 10' (E304022-02) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
TPHv (C5 - C12)	**620**	100	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
SV4 5' (E304022-03) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
TPHv (C5 - C12)	**1300**	100	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
SV4 10' (E304022-04) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
TPHv (C5 - C12)	**1800**	100	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
SV5 5' (E304022-05) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
TPHv (C5 - C12)	**770**	100	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
SV5 10' (E304022-06) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
TPHv (C5 - C12)	**2300**	100	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	
Dup (E304022-07) Vapor Sampled: 07-Apr-23 Received: 10-Apr-23									
TPHv (C5 - C12)	**350**	100	ug/m3	1	ED31008	10-Apr-23	10-Apr-23	EPA TO-15	

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1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31008 - TO-15										
Blank (ED31008-BLK2)				Prepared & Analyzed: 10-Apr-23						
1,1-Difluoroethane (LCC)	ND	5.5	ug/m3							
Dichlorodifluoromethane (F12)	ND	5.0	"							
Chloromethane	ND	2.1	"							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	"							
Chloroethane	ND	8.0	"							
Trichlorofluoromethane (F11)	ND	5.6	"							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"							
Methylene chloride (Dichloromethane)	ND	3.5	"							
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
2-Butanone (MEK)	ND	30	"							
cis-1,2-Dichloroethene	ND	4.0	"							
Chloroform	ND	4.9	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Benzene	ND	3.2	"							
Carbon tetrachloride	ND	6.4	"							
Trichloroethene	ND	5.5	"							
1,2-Dichloropropane	ND	9.4	"							
Bromodichloromethane	ND	6.8	"							
cis-1,3-Dichloropropene	ND	4.6	"							
4-Methyl-2-pentanone (MIBK)	ND	8.3	"							
trans-1,3-Dichloropropene	ND	4.6	"							
Toluene	ND	3.8	"							
1,1,2-Trichloroethane	ND	5.5	"							
2-Hexanone (MBK)	ND	8.3	"							
Dibromochloromethane	ND	8.6	"							
Tetrachloroethene	ND	6.9	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,1,1,2-Tetrachloroethane	ND	7.0	"							

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1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31008 - TO-15										
Blank (ED31008-BLK2)				Prepared & Analyzed: 10-Apr-23						
Chlorobenzene	ND	4.7	ug/m3							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
Styrene	ND	4.3	"							
o-Xylene	ND	4.4	"							
Bromoform	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	12	"							
1,4-Dichlorobenzene	ND	12	"							
1,2-Dichlorobenzene	ND	12	"							
1,2,4-Trichlorobenzene	ND	38	"							
Hexachlorobutadiene	ND	54	"							
Surrogate: 1,2-Dichloroethane-d4	*218*		*"*	*214*		*102*	*76-134*			
Surrogate: Toluene-d8	*209*		*"*	*208*		*100*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*344*		*"*	*363*		*94.8*	*77-127*			
LCS (ED31008-BS1)				Prepared & Analyzed: 10-Apr-23						
Dichlorodifluoromethane (F12)	110	5.0	ug/m3	101		113	59-128			
Vinyl chloride	63	2.6	"	52.0		121	64-127			
Chloroethane	66	8.0	"	53.6		122	63-127			
Trichlorofluoromethane (F11)	130	5.6	"	113		118	62-126			
1,1-Dichloroethene	86	4.0	"	80.8		106	61-133			
1,1,2-Trichlorotrifluoroethane (F113)	160	7.7	"	155		105	66-126			
Methylene chloride (Dichloromethane)	75	3.5	"	70.8		105	62-115			
trans-1,2-Dichloroethene	84	8.0	"	80.8		105	67-124			
1,1-Dichloroethane	89	4.1	"	82.4		108	68-126			
cis-1,2-Dichloroethene	86	4.0	"	80.0		108	70-121			
Chloroform	110	4.9	"	99.2		111	68-123			
1,1,1-Trichloroethane	120	5.5	"	111		108	68-125			
1,2-Dichloroethane (EDC)	99	4.1	"	82.4		120	65-128			

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31008 - TO-15										
LCS (ED31008-BS1)				Prepared & Analyzed: 10-Apr-23						
Benzene	69	3.2	ug/m3	64.8		107	69-119			
Carbon tetrachloride	140	6.4	"	128		112	68-132			
Trichloroethene	120	5.5	"	110		110	71-123			
Toluene	86	3.8	"	76.8		112	66-119			
1,1,2-Trichloroethane	130	5.5	"	111		118	73-119			
Tetrachloroethene	160	6.9	"	138		117	66-124			
1,1,1,2-Tetrachloroethane	170	7.0	"	140		121	67-129			
Ethylbenzene	110	4.4	"	88.4		119	70-124			
m,p-Xylene	110	8.8	"	88.4		123	61-134			
o-Xylene	110	4.4	"	88.4		121	67-125			
1,1,2,2-Tetrachloroethane	170	7.0	"	140		121	65-127			
Surrogate: 1,2-Dichloroethane-d4	*241*		*"*	*214*		*113*	*76-134*			
Surrogate: Toluene-d8	*209*		*"*	*208*		*100*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*385*		*"*	*363*		*106*	*77-127*			

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Petroleum Hydrocarbon Analysis by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31008 - TO-15										
Blank (ED31008-BLK2)				Prepared & Analyzed: 10-Apr-23						
TPHv (C5 - C12)	ND	100	ug/m3							

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Atlas Technical Consultants - Modesto	Project: ATC041023-18	
1117 Lone Palm Ave., Suite 201B	Project Number: KJMS / Sacramento, CA	Reported:
Modesto, CA 95351	Project Manager: Jeanne Homsey	11-Apr-23 16:38

Notes and Definitions

LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

H&P Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 4-7-2023
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: Atlas Technical	Project Name / #: KJMS
Lab Client Project Manager: Jeanne Homsey	Project Location: Sacramento, CA
Lab Client Address: 117 Lone Palm Ave, Suite 201B	Report E-Mail(s): jeanne.homsey@coreatlas.com
Lab Client City, State, Zip: Modesto, CA 95351	jim.kundert@coreatlas.com
Phone Number: 209-579-2221	

Reporting Requirements

- [x] Standard Report
- [ ] Level III
- [ ] Level IV
- [ ] Excel EDD
- [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround Time

- [ ] **Standard** (7 days for preliminary report, 10 days for final report)
- [x] **Rush** (specify): 3-day*

Sampler Information

Sampler(s): Jim Kundert
Signature:
Date: 4-7-2023

Sample Receipt (Lab Use Only)

Date Rec'd: 4/10/23	Control #: 230169.01
H&P Project #: ATC041023-18	
Lab Work Order #: E304022	

Sample Intact: [x] Yes [ ] No [ ] See Notes Below

Receipt Gauge ID: 61210 Temp: RT

Outside Lab:

Receipt Notes/Tracking #: 1Z93TT618450858070

Lab PM Initials: KB

Additional Instructions to Laboratory: * Final by COB 4/13

*** Preferred VOC units (please choose one):**
[ ] µg/L [x] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [x] TO-15	VOCs Short List / Project List [ ] 8260SV [ ] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15	TPHv as Gas [ ] 8260SV/m [x] TO-15m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [x] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2				
SV-3 5'		04/07/23	1140	SV	400mL	066	-2	X				X		X							
SV3 10'			1150			238	-3	X				X		X							
SV4 5'			1211			228	-3	X				X		X							
SV4 10'			1240			047	-2	X				X		X							
SV5 5'			1305			141	-3	X				X		X							
SV5 10'			1374			016	-5	X				X		X							
Dup						167	-3	X				X		X							

Approved/Relinquished by:	Company:	Date:	Time:	Received by: GPS	Company:	Date:	Time:
Approved/Relinquished by:	Company: Atlas	Date: 4-7-23	Time: 1710	Received by:	Company: H&P	Date: 4/10/23	Time: 1015
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

APPENDIX B

Work Notice Letter dated April 5, 2023

San Juan Unified School District

Nicholas Arps, Director – Facilities, Construction & Modernization
6135 Sutter Avenue, Carmichael, CA 95608
Telephone (916) 971-5780
Internet Web Site: www.sanjuan.edu

Melissa Bassanelli, Superintendent
Frank Camarda, Chief Operations Officer

Date: April 5, 2023

To: Community Members and Neighbors of Creekside Adult Center, 2641 Kent Drive, Sacramento, Ca.

RE: Preliminary Endangerment Assessment (PEA) for the Katherine Johnson Middle School Project

San Juan Unified School District (District) would like to provide you with notice of a Preliminary Endangerment Assessment (PEA) that will be conducted on the former Creekside Adult Center located at 2641 Kent Drive in Sacramento, California. This project is known as the Katherine Johnson Middle School that will be built on the same parcel of land.

The PEA will be performed by a licensed contractor under the oversight of the Department of Toxic Substances Control (DTSC). Although an endangerment assessment will be conducted, this does not mean hazardous substances are located on the property. State laws and regulations require that all proposed new and expanding school sites undergo a complete environmental review, and if necessary, a cleanup to protect students, faculty, and staff who will occupy the school.

Field work is scheduled to occur during the day 8:00 am to 5:00 pm from April 07, 2023 through April 14, 2023. All field work will be conducted during normal business hours, and street closures will not be required during the investigation.

The District will submit the results of the PEA as a draft to DTSC for review and approval. Upon comments from DTSC, a final PEA Report will be submitted. The PEA will include an assessment of whether hazardous materials are present, and if so, whether the materials are present at concentrations that will require cleanup before implementing the school construction project. The District will hold a 30-day public review and comment period for the draft PEA report. Additionally, the District will hold a public hearing to discuss the assessment results and receive comments from the public. All comments received in this process shall be forwarded to DTSC for consideration.

The draft PEA will be made available for review at two District repositories. Notice of the 30-day review period, date of the public hearing, and location of the repositories, will be published in a local newspaper. When the public participation process is complete, DTSC will issue a final determination with regard to the PEA Report.

If you have any questions concerning the upcoming PEA, please contact Mr. Nicholas Arps, Director of Facilities, Construction, and Modernization, San Juan Unified School District, at (916) 971-5780, Nicholas.arps@sanjuan.edu .



Nicholas Arps, LEED AP
Director, Facilities, Construction & Modernization
San Juan Unified School District

APPENDIX C

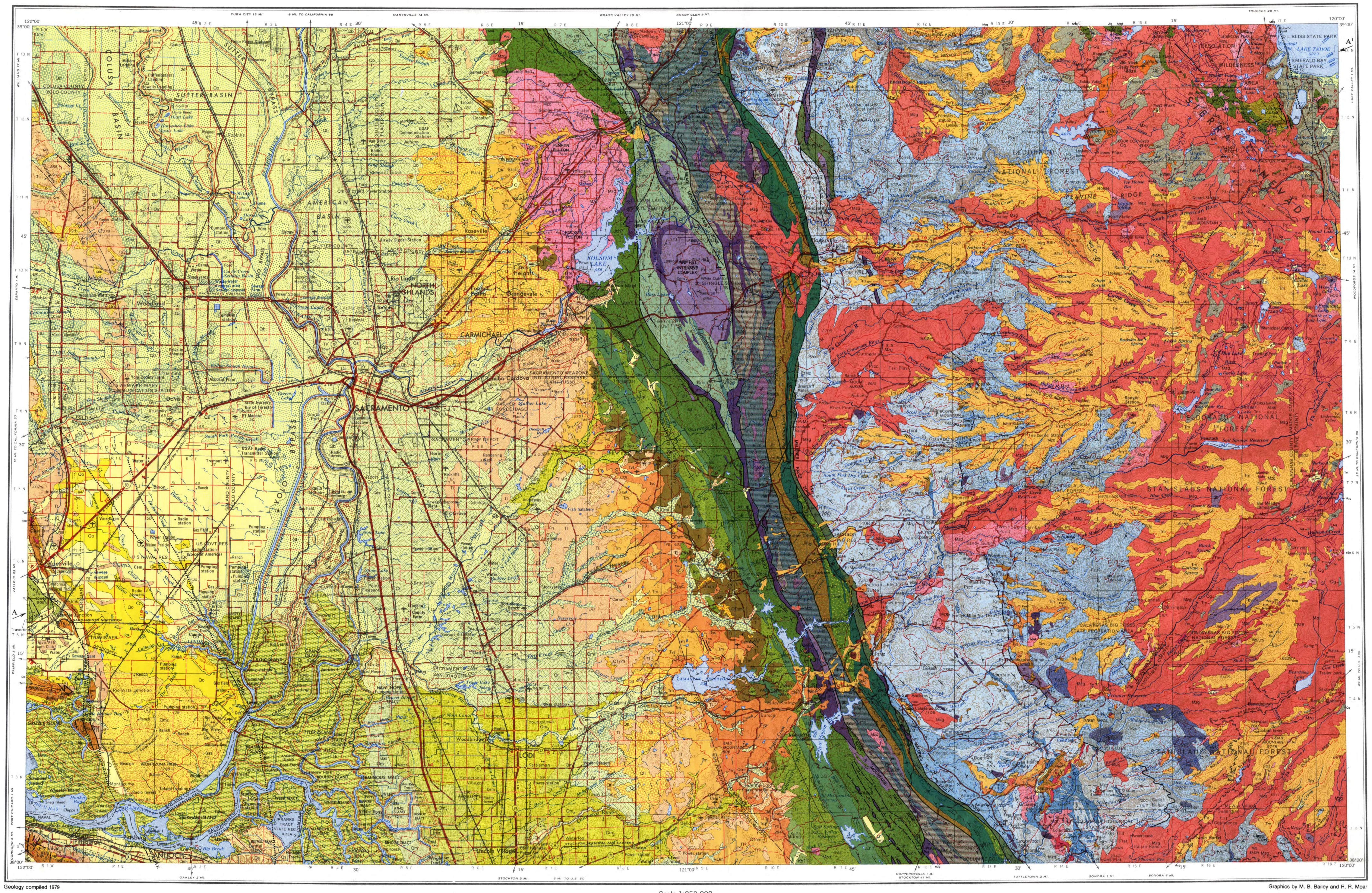
Geologic Map and Background Data Set for Arsenic

Table 11
Background Threshold Value for Arsenic
Proposed Katherine Johnson Middle School, Sacramento, CA

Analyte	Unit	Number of Samples	Detection Rate	Mean	Std Dev	Min Detected	Max Detected	Distribution	Background Threshold Value (BTV) Method	Selected BTV
Arsenic	mg/kg	17	100%	3.759	0.974	2.55	6.6	Normal	95% UTL (Normal) with 95% Coverage	**6.179**

Notes:
The background data set consists of 12 Arden data points and 5 Katherine Johnson data points.
If duplicate exists, the average of primary and duplicate results is used as a single data point.
UTL - Upper Tolerance Limit
USEPA. 2022. ProUCL Version 5.2 (Software). Retrieved from https://www.epa.gov/land-research/proucl-software. June.

STATE OF CALIFORNIA—EDMUND G. BROWN JR., GOVERNOR
THE RESOURCES AGENCY—HUEY D. JOHNSON, SECRETARY
DEPARTMENT OF CONSERVATION—PRISCILLA C. GREW, DIRECTOR



Geology compiled 1979

Graphics by M. B. Bailey and R. R. Moar

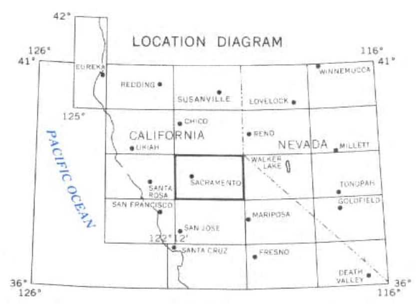
TOPOGRAPHIC BASE MAP

Prepared by the U.S. Army Topographic Command (KCSX), Washington, D.C. Compiled in 1961 by photogrammetric methods and from United States quadrangles, 1:24,000, 1:25,000, and 1:50,000, 1941-55; USC&GS chart, 1957. Planimetry revised in part from aerial photographs taken 1954-60. Map field checked 1957. Revised by the U.S. Geological Survey 1970.

Selected hydrographic data compiled from USC&GS charts. This information is not intended for navigational purposes.

Minor corrections and additions to culture by California Division of Mines and Geology 1979.

Depth contours in Lake Tahoe in feet—compiled from soundings shown on U.S. Coast and Geodetic Survey Chart 5001.

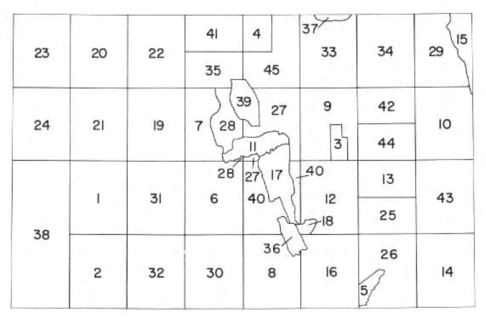


Scale 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
5 0 5 10 15 Nautical Miles

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION



ABBREVIATED INDEX TO GEOLOGIC SOURCE DATA
(Complete Index on Sheet 3)

1. Atwater, B., 1979
2. Atwater, B., 1979
3. Aune, Q.A., 1965
4. Aune, Q.A., 1979
5. Baird, A.K., 1962
6. Bartow, J.A., and Marchand, D.E., 1979
7. Bartow, J.A., and Helley, E.J., 1979
8. Bartow, J.A., and Marchand, D.E., 1979
9. Bedrossian, T.L., 1979
10. Bedrossian, T.L., 1979
11. Behrman, P.G., 1978
12. Bortugno, E.J., 1979
13. Bortugno, E.J., 1979
14. Bortugno, E.J., 1979
15. Burnett, J.L., 1971
16. Clark, L.D., Stromquist, A.A., and Tatlock, D.B., 1963
17. Duffield, W.A., and Sharp, R.V., 1975
18. Goldman, H.B., 1964
Rose, R.L., 1949
Bartow, J.A., 1979
19. Helley, E.J., 1979
20. Helley, E.J., 1979
21. Helley, E.J., 1979
22. Helley, E.J., 1979
23. Helley, E.J., and Barker, J.A., 1979
24. Helley, E.J., and Barker, J.A., 1979
25. Jennings, C.W., 1979
26. Jennings, C.W., 1979
27. Lindgren, Waldemar and Turner, H.W., 1894
28. Lindgren, Waldemar, 1894
29. Loomis, A.A., 1964
30. Marchand, D.E., and Bartow, J.A., 1979
31. Marchand, D.E., and Atwater, B., 1979
32. Marchand, D.E., and Atwater, B., 1979
33. McJunkin, R.D., and Taylor, G.C., 1979
34. McJunkin, R.D., and Taylor, G.C., 1979
35. Olmsted, F.H., 1971
36. Parkison, G.A., 1976
37. Redmond, T.L., 1966
38. Sims, J.D., Fox, K.F., Jr., Bartow, J.A., and Helley, E.J., 1973
39. Springer, R.K., 1971
40. Taliaferro, N.L., 1950
41. Taylor, G.C., 1979
42. Taylor, G.C., and McJunkin, R.D., 1979
43. Wagner, D.L., 1979
44. Wagner, D.L., 1979
45. Wagner, D.L., 1979

ABBREVIATED EXPLANATION

Approximate stratigraphic relationships only; see Geologic Map Explanation for more accurate stratigraphic relationships and unit descriptions.

SEDIMENTARY AND METASEDIMENTARY ROCKS

CENOZOIC — QUATERNARY

- Q — Alluvium
- t — Mine and dredge tailings
- Qa — Levee and channel deposits
- Qb — Basin deposits *(Alluvium)*
- Qi — Intertidal deposits *(Peaty mud)*
- Qs — Dune sand
- Ql — Lake deposits
- Qo — Older alluvium
- Qg — Glacial deposits
- Qm — Modesto Formation *(Alluvium)*; Qm_1/Qm_2 Upper and lower members
- Qr — Riverbank Formation *(Alluvium)*
- Qmr — Modesto-Riverbank Formations *(Arkosic alluvium)*
- Qmz — Montezuma Formation *(Poorly consolidated, clayey sand)*
- Qtl — Turlock Lake Formation *(Sand, silt, and gravel)*
- Qrb — Red Bluff Formation *(Gravel in reddish, silty or sandy matrix)*
- QTnm — North Merced Gravel *(Thin pediment veneer)*

CENOZOIC — TERTIARY

- Tt — Tehama Formation *(Sand, silt, and volcaniclastic rocks)*
- Tl — Laguna Formation *(Consolidated alluvial deposits)*
- Tsp — San Pablo Group *(Marine sandstone and shale)*
- Tm — Mehrten Formation *(Andesitic conglomerate, sandstone, and breccia)*
- Tvs — Valley Springs Formation *(Rhyolitic tuff and sedimentary rocks)*
- Tmk — Markley Sandstone *(Marine)*
- Tn — Nortonville Shale *(Marine)*
- Td — Domengine Sandstone *(Marine)*
- Tc — Capay Formation *(Marine sandstone)*
- Tg — "Auriferous" Gravels
- Ti — Ione Formation *(Quartzose sandstone and kaolinitic clay)*
- Tmz — Martinez Formation *(Marine quartzose sandstone)*

MESOZOIC — CRETACEOUS

- Kg — Guinda Formation *(Marine sandstone)*
- Kc — Chico Formation *(Marine sandstone, shale, and conglomerate)*

MESOZOIC — JURASSIC

- Jss — Salt Springs Slate
- Jm — Mariposa Formation *(Slate, graywacke, and conglomerate)*
- Jls — Sailor Canyon Formation *(Metasedimentary rocks)*

PALEOZOIC

- ms — Metasedimentary rocks*
- ls — Crystalline limestone and dolomite*
- Pzcc — Calaveras Complex *(Metasedimentary rocks)*
- PzMz — Paleozoic-Mesozoic metamorphic rocks
- Pzg? — Augen gneiss of uncertain age
- Pzu? — Undifferentiated Paleozoic(?) rocks

VOLCANIC AND METAVOLCANIC ROCKS

- Qbs — Basalt
- Tlt — Lawlor Tuff
- Tvd — Dacite, rhyodacite domes
- Tet — Eureka Valley Tuff
- Ttm — Table Mountain Latite
- Tpp — Putnam Peak Basalt
- Jch — Copper Hill Volcanics
- Jmb — Brower Creek Volcanics
- Jgo — Gopher Ridge Volcanics
- Jlr — Logtown Ridge Formation
- Jmv — Jurassic metavolcanic rocks
- mv — Metavolcanic rocks*
- Pzcv — Calaveras Complex volcanic rocks

PLUTONIC ROCKS

MESOZOIC

- Mzg — Mesozoic granitic rocks
- Mzd — Mesozoic dioritic rocks
- gb — Gabbroic rocks*
- um — Ultramafic rocks*

*Horizontal line pattern denotes melange terrane.

MAP SYMBOLS

Contact
(Observed or approximately located; queried where gradational or inferred.)

Fault
(Solid where well located; dashed where approximately located or inferred; dotted where concealed by younger rocks or water; queried where continuation or existence is uncertain. U, upthrown side; D, downthrown side, relative or apparent.)

Anticlinal fold
(Dotted where concealed by younger rocks or water.)

Synclinal fold
(Dotted where concealed by younger rocks or water.)

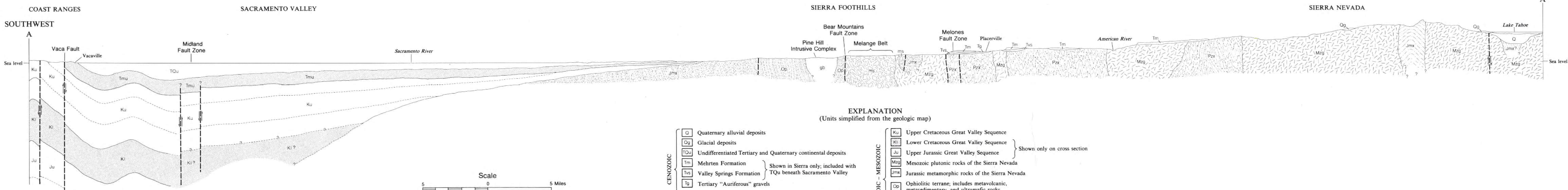
Overturned fold

Strike and dip of beds
(General strike and dip of stratified rocks.)

Strike and dip of foliation
(General strike and dip of foliation in metamorphic rocks.)

Joints
(Prominent joints in granitic and metamorphic rocks of the high Sierra.)

DIAGRAMMATIC CROSS SECTION ACROSS THE SACRAMENTO QUADRANGLE



EXPLANATION
(Units simplified from the geologic map)

CENOZOIC

- Q — Quaternary alluvial deposits
- Qg — Glacial deposits
- TQu — Undifferentiated Tertiary and Quaternary continental deposits
- Tm — Mehrten Formation; Tvs — Valley Springs Formation (Shown in Sierra only; included with TQu beneath Sacramento Valley)
- Tg — Tertiary "Auriferous" gravels
- Tmu — Undifferentiated early Tertiary marine deposits on west side and beneath Sacramento Valley grading into early Tertiary nonmarine deposits (Ione Fm) on east side of the Valley

PALEOZOIC - MESOZOIC

- Ku — Upper Cretaceous Great Valley Sequence; Kl — Lower Cretaceous Great Valley Sequence; Ju — Upper Jurassic Great Valley Sequence (Shown only on cross section)
- Mzg — Mesozoic plutonic rocks of the Sierra Nevada
- Jmx — Jurassic metamorphic rocks of the Sierra Nevada
- Op — Ophiolitic terrane; includes metavolcanic, metasedimentary, and ultramafic rocks
- gb — Gabbroic rocks (in ophiolitic terrane)
- ms — Sheared Mesozoic-Paleozoic rocks of Foothill melange belt
- Pzx — Paleozoic metamorphic rocks of the Sierra Nevada

Williams & Heintz Map Corporation, Capitol Heights, Md. 20743

GEOLOGIC MAP OF THE SACRAMENTO QUADRANGLE, CALIFORNIA, 1:250,000

Compilation by
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